

FIG. 1A (PRIOR ART)

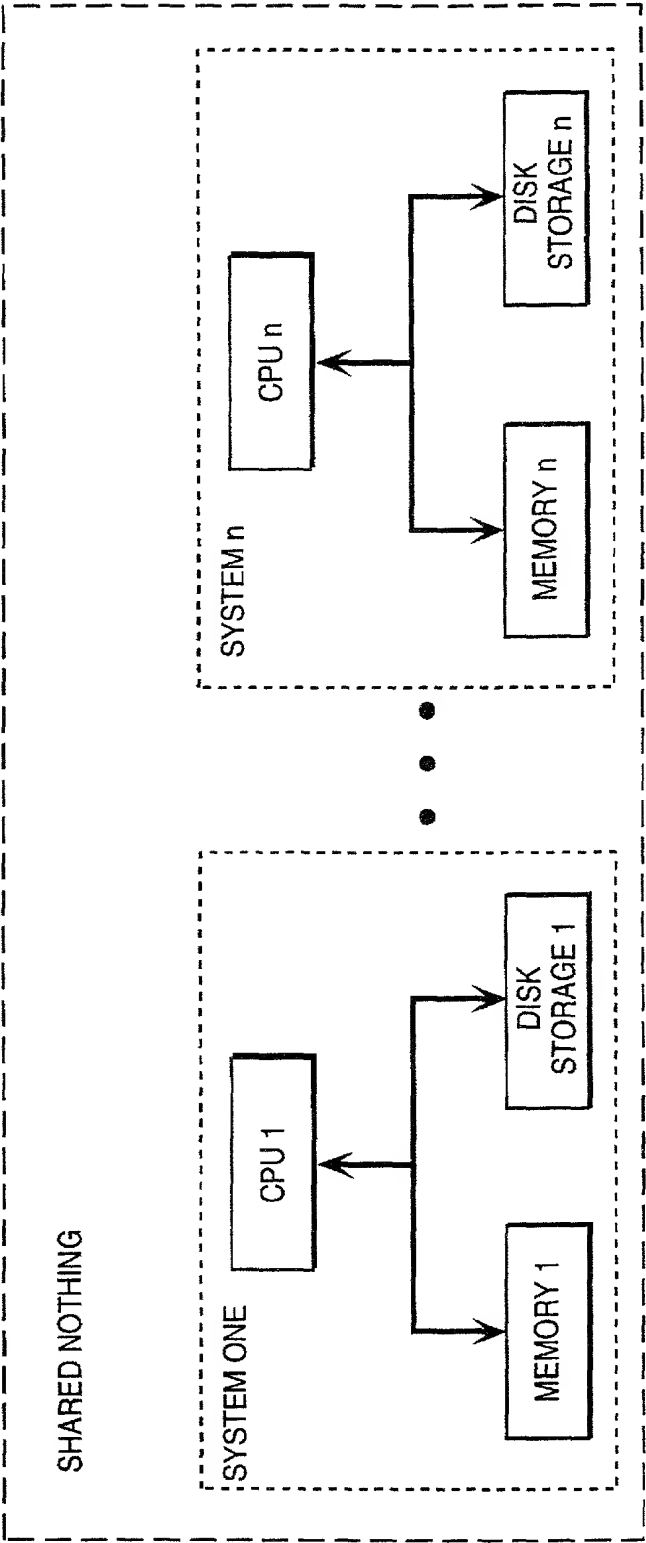


FIG. 1B (PRIOR ART)

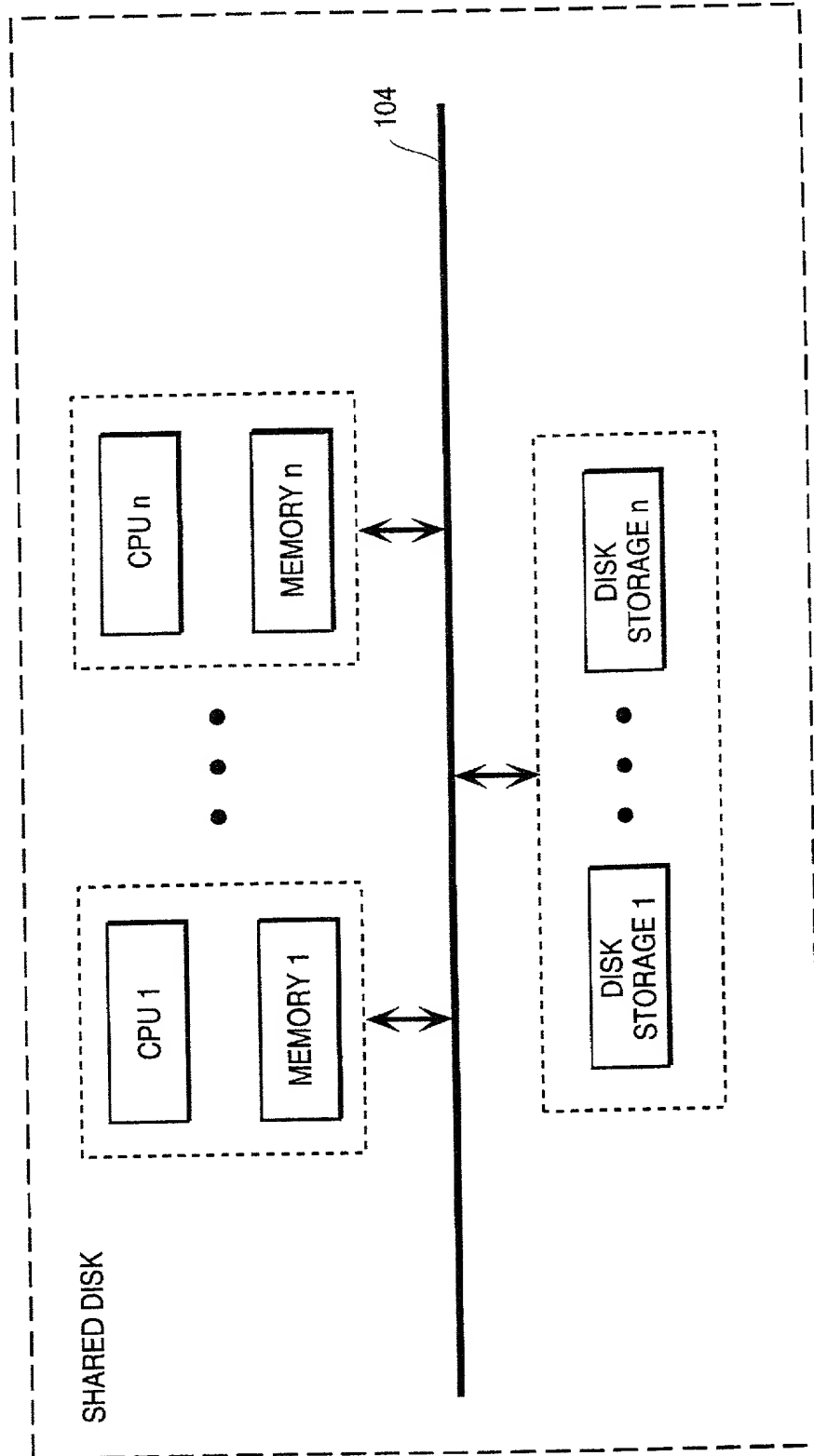


FIG. 1C (PRIOR ART)

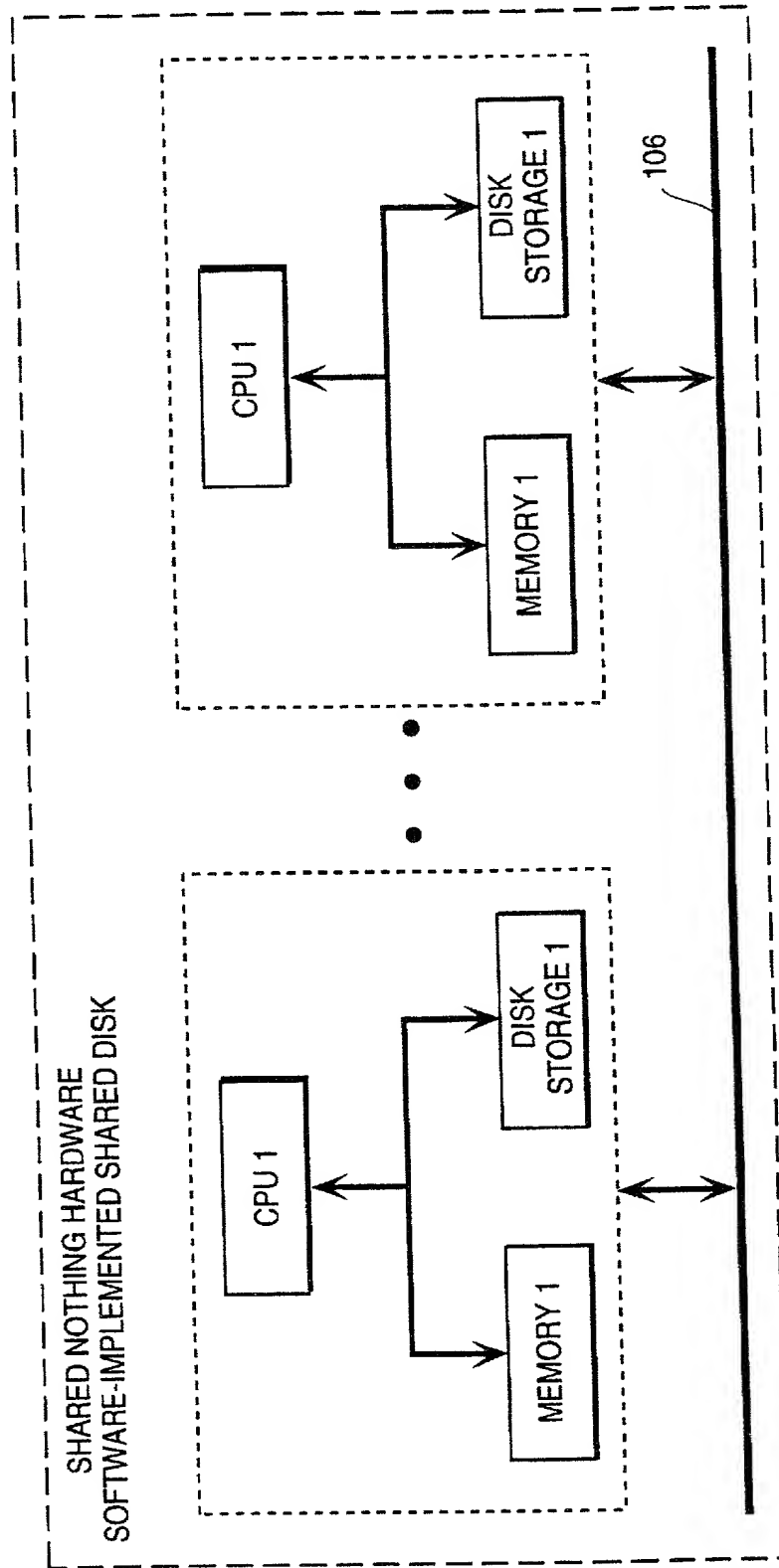


FIG. 1D (PRIOR ART)

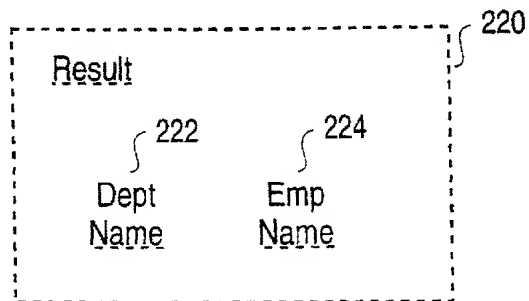
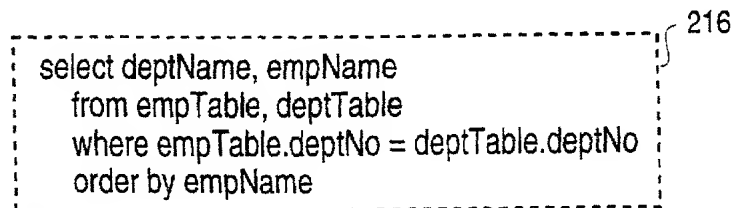
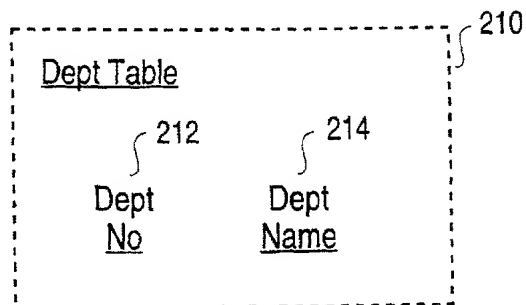
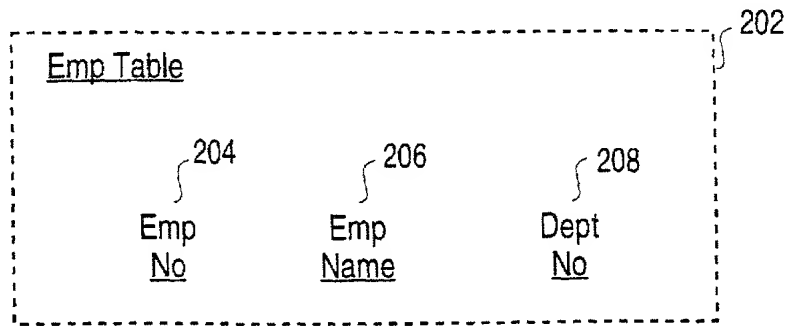


FIG. 2

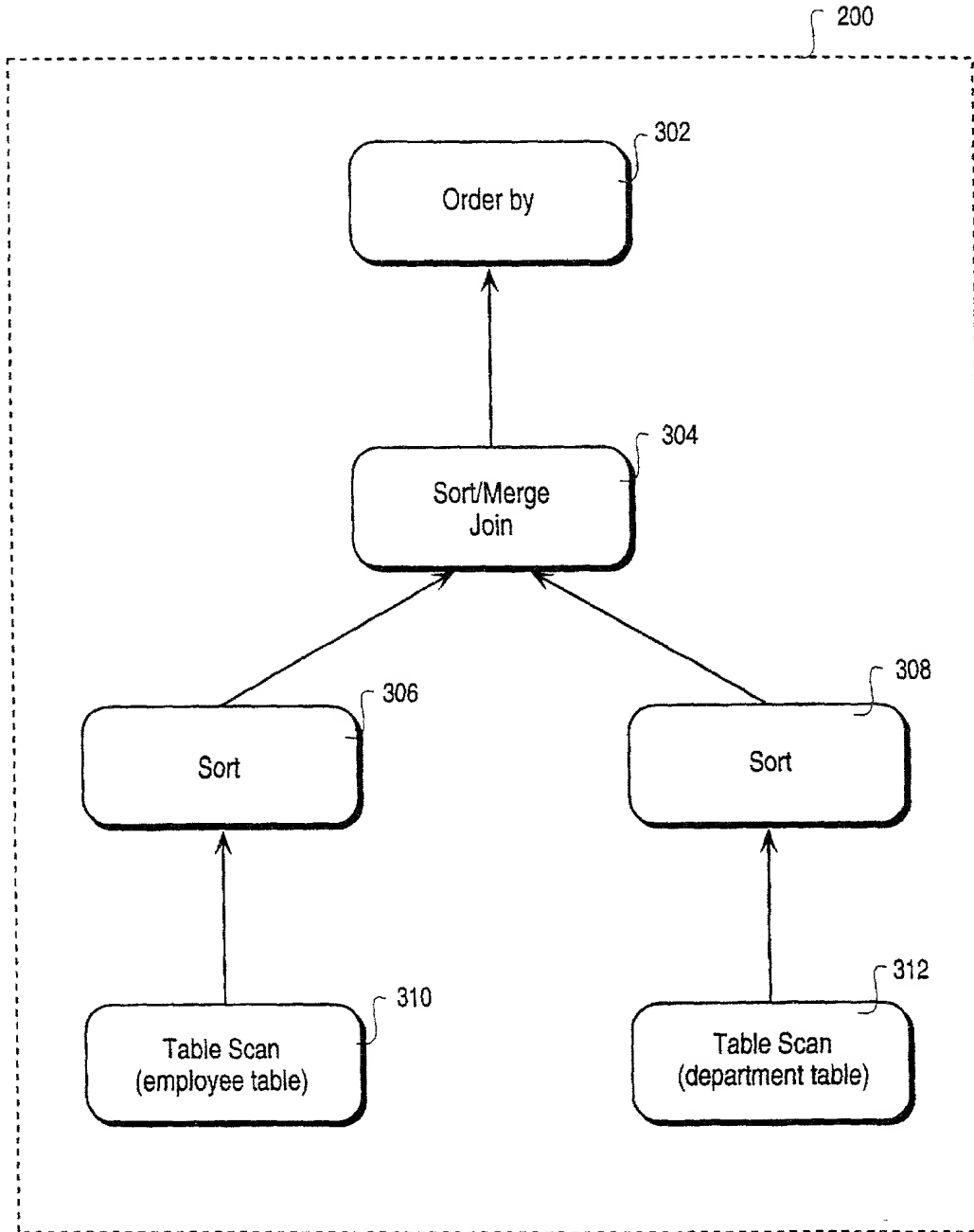


FIG. 3A

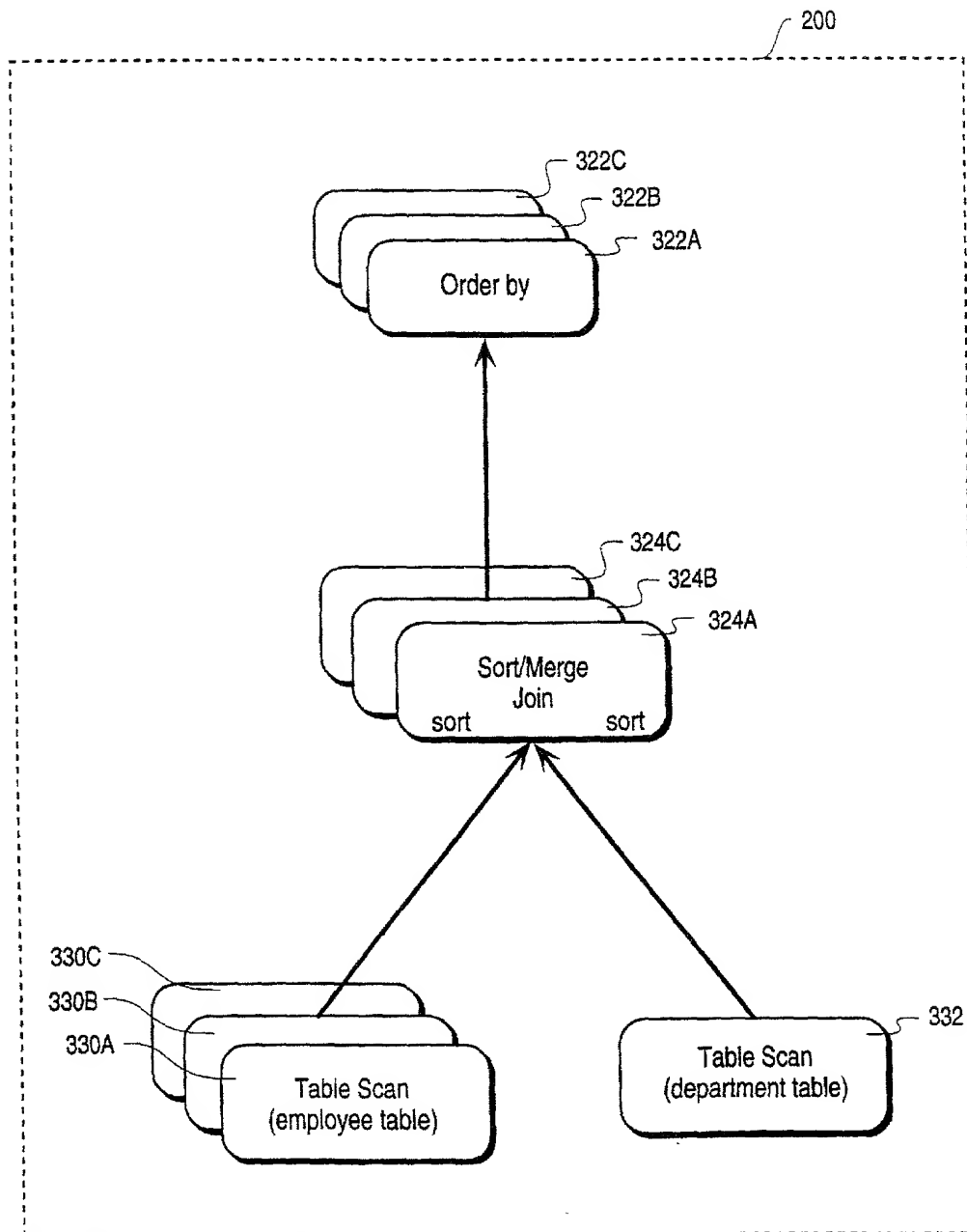


FIG. 3B

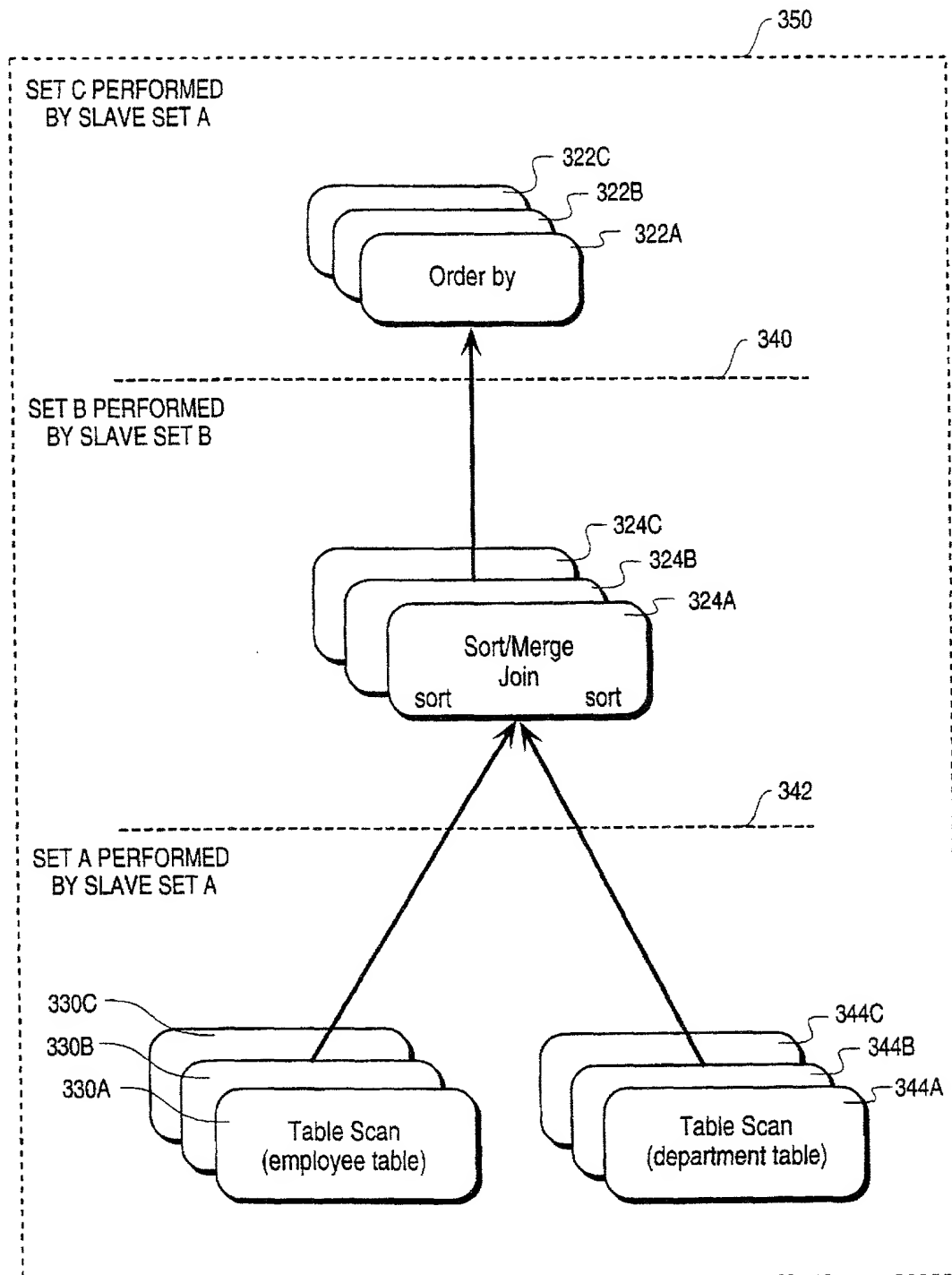


FIG. 3C

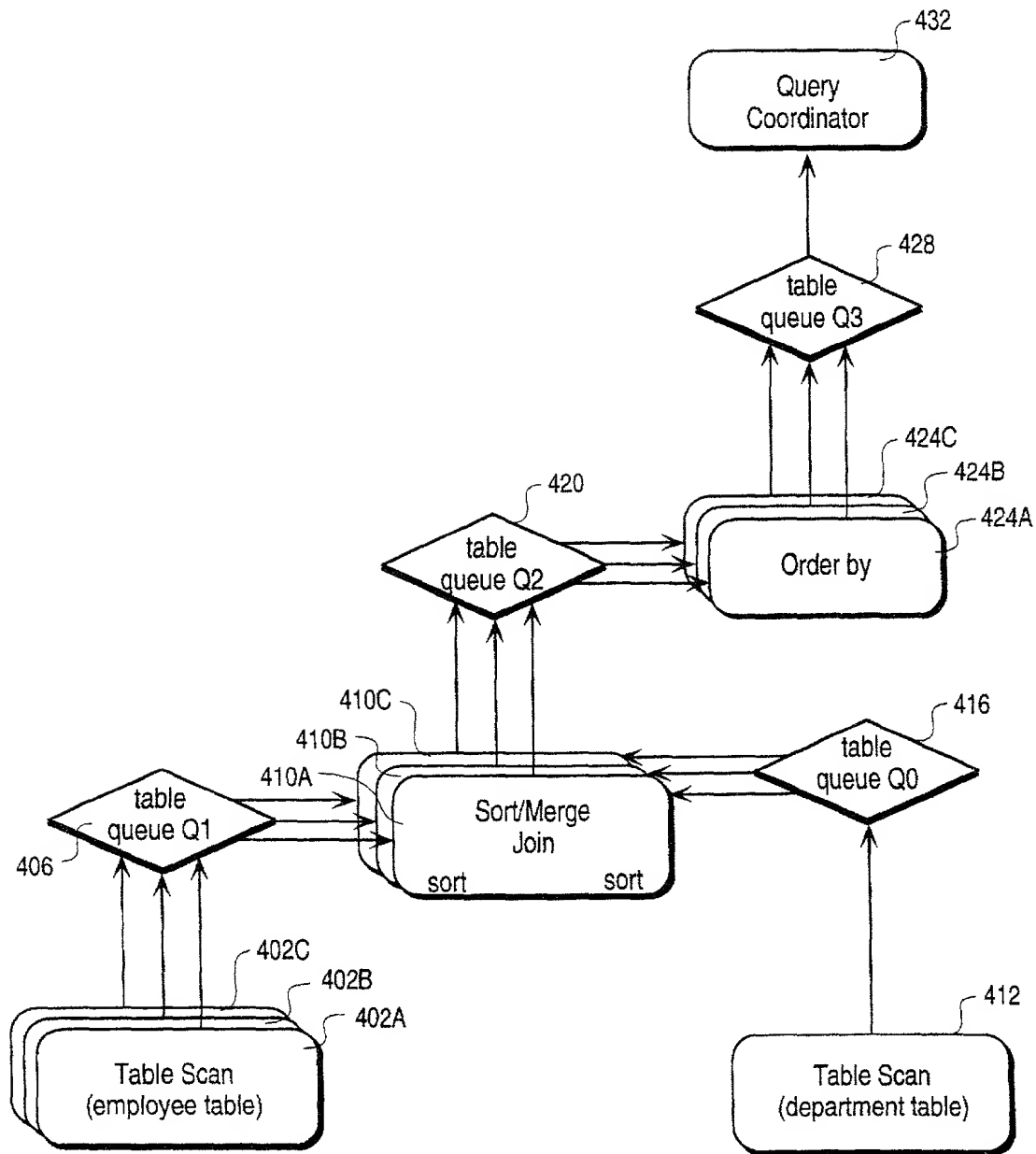
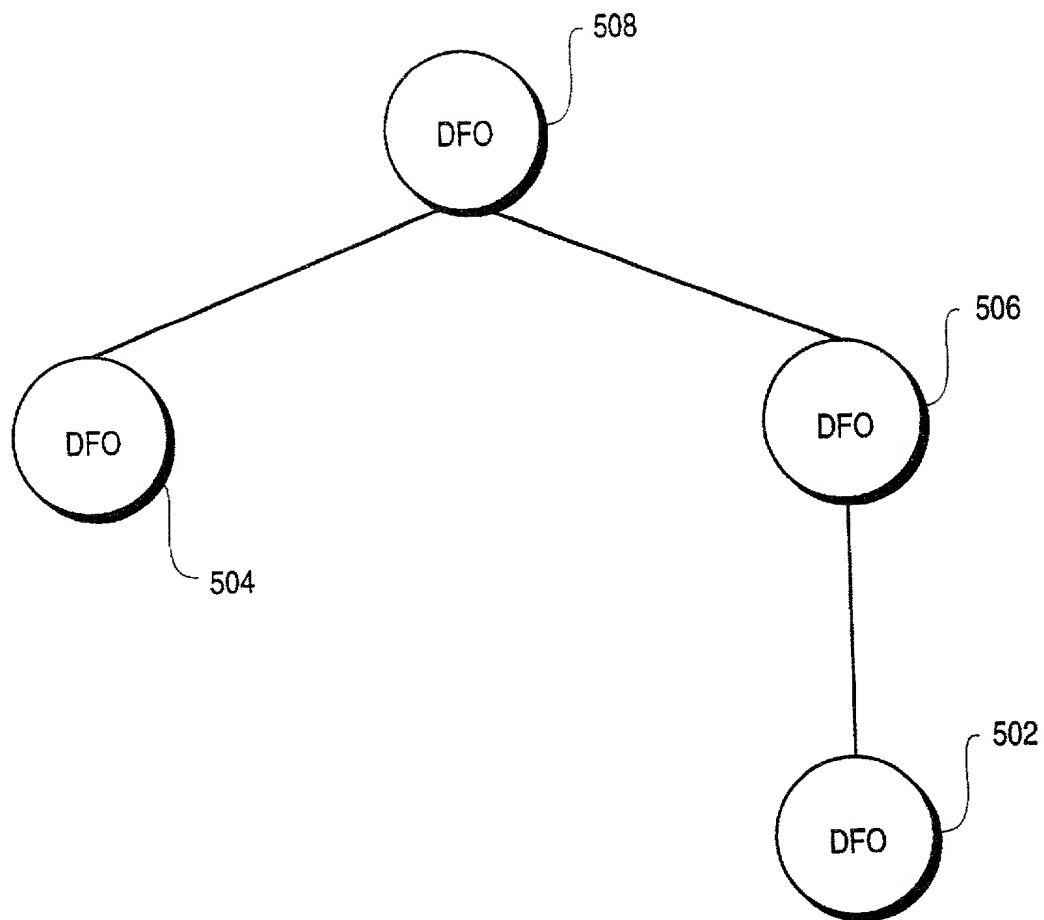


FIG. 4

**FIG. 5**

| | |
|--------------------------|---|
| DFO Type | Type of DFO (e.g., table scan, sort/merge join) |
| Pointer to Parent | Pointer to parent node |
| Pointer to Sibling | Pointer to next-node |
| Row Source | Row source equivalent for this node |
| Operation | Identifies table node for this queue |
| Table Queue Identifier | |
| Skipped Node Information | Pointer to first child of parallelized node |
| Non-QC Node Information | Number of key columns in input table queue |
| Pointer to First Child | Parallelized node's partitioning type (e.g., hash, key range, rowid range, round robin) |
| Key Column Number | Number of clumped columns with parent |
| Partitioning Type | |
| Clumped Columns | |
| Predicates | |
| Control Blocks | Contains table scan information (e.g., table name and degree of parallelism) |
| Table Scan | Contains information for an indexed nested loop join (e.g., right and left input table) |
| Indexed Nested Loop Join | |
| names) | |
| Sort/Merge join | Contains information for a sort/merge join (e.g., merge or outer join control flags) |
| Index Creation | Contains information for index creation (e.g., column list, index type, and storage parameters) |

FIG. 6A

| | |
|----------------------------|---|
| Pointer to Next-to-Execute | Pointer to the next DFO to execute |
| Table Queue Identifier | Output table queue identifier |
| Rowid Table Number | Number of tables partitioned by rowid |
| SQL Statement Size | Size of the SQL statement representing DFO |
| SQL Statement | SQL statement representing DFO |
| Flags | |
| Started | Slave sends "Started" message upon receipt |
| Ready | Slave sends "Ready" message when input consumed |
| Close | Slave expects to be closed upon completion |

FIG. 6B

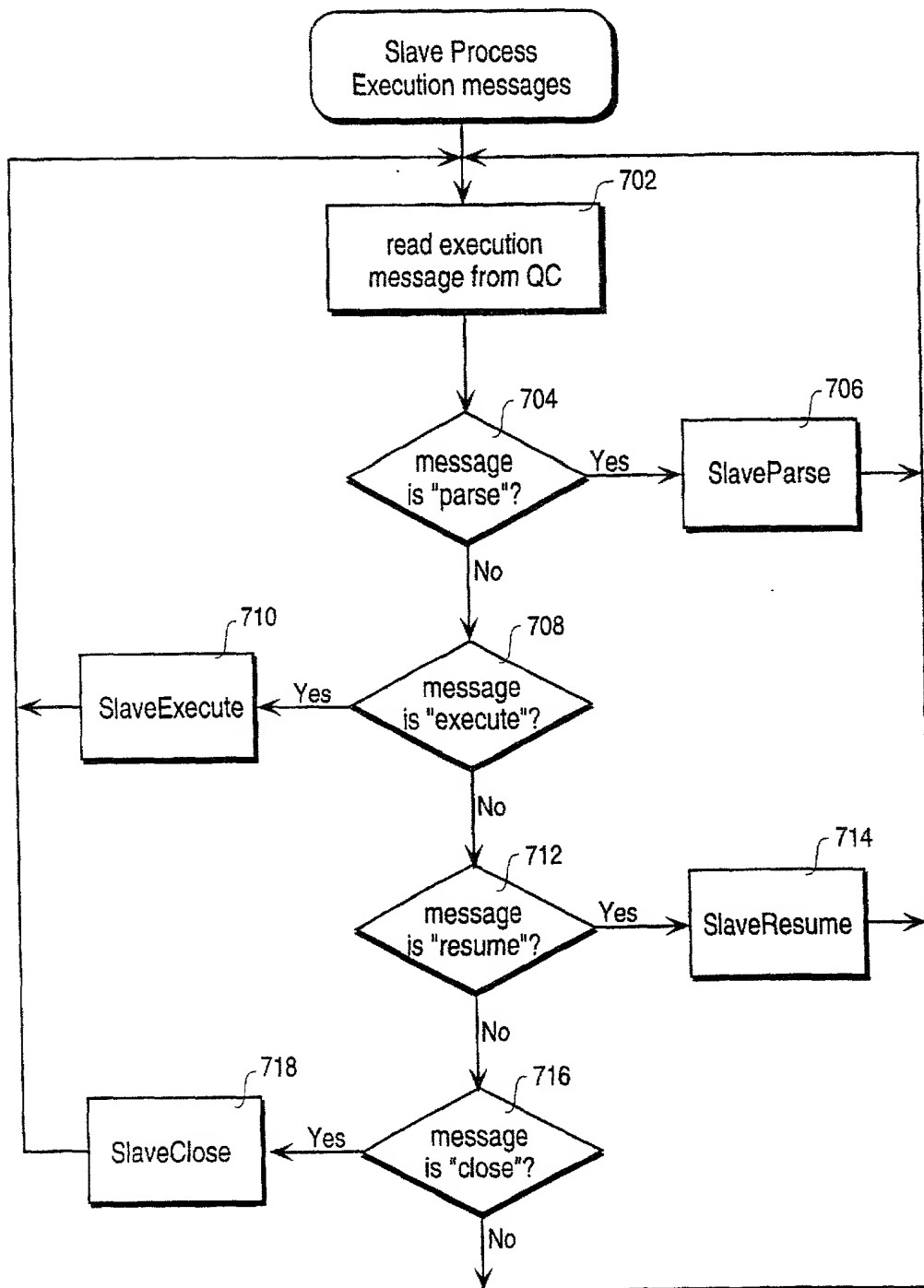
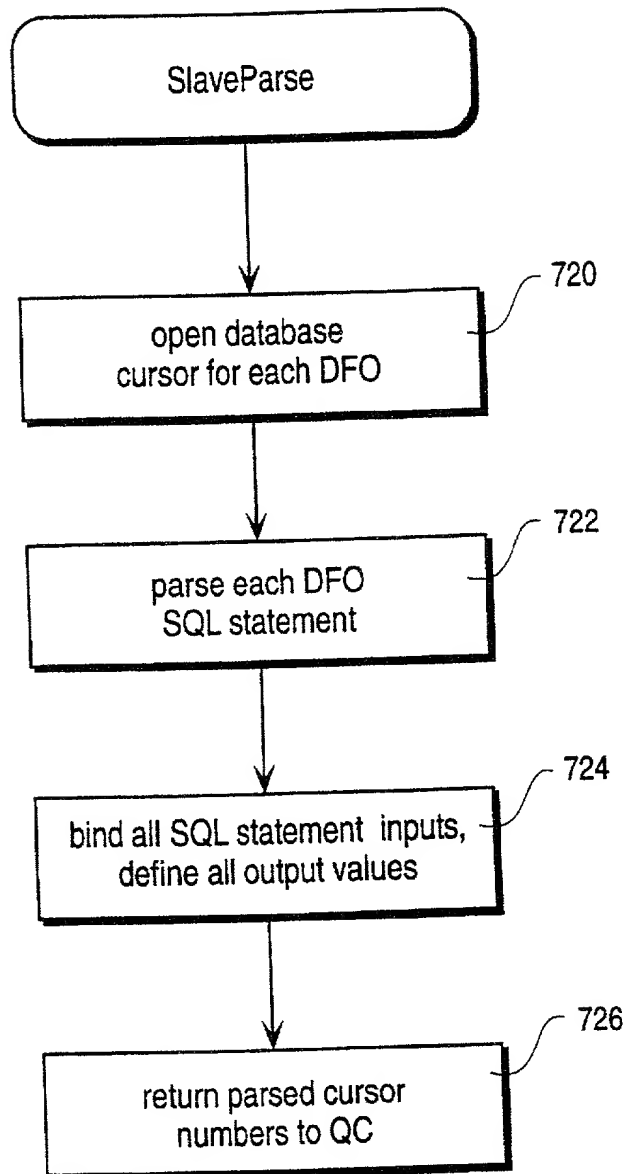


FIG. 7A

**FIG. 7B**

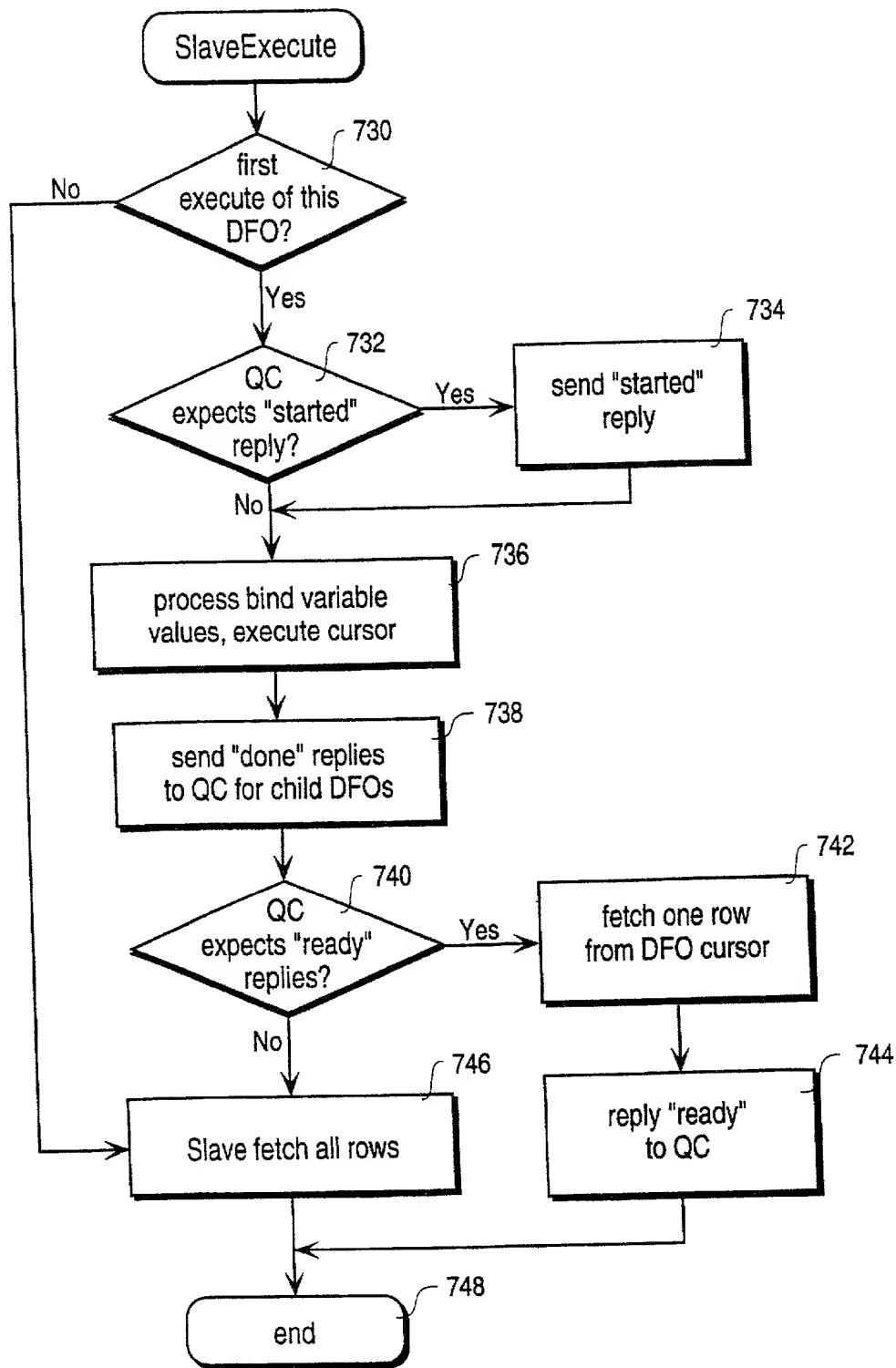
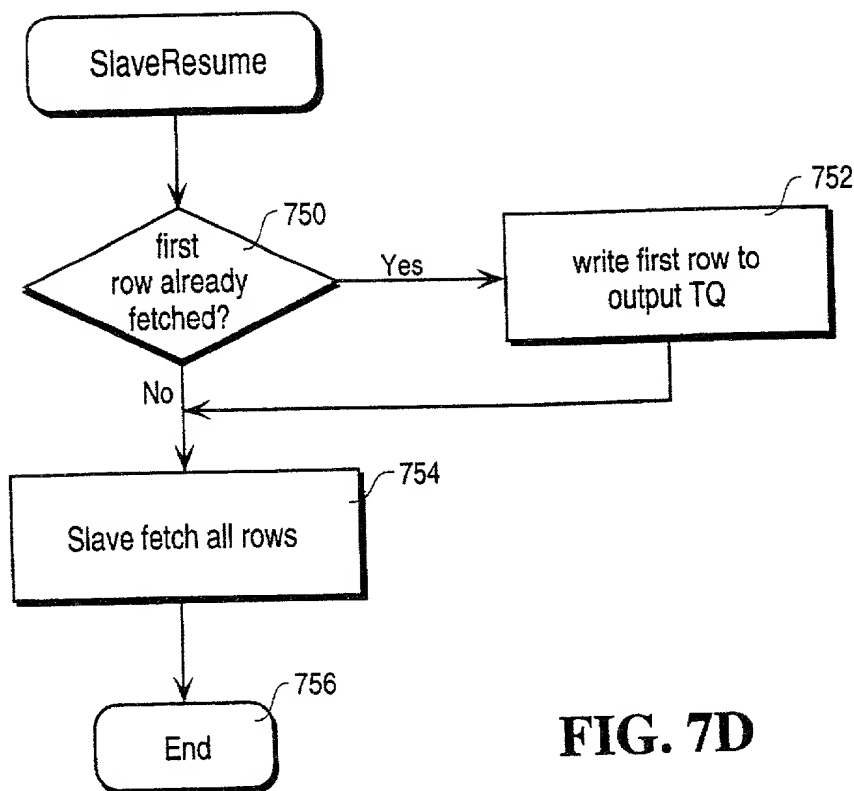
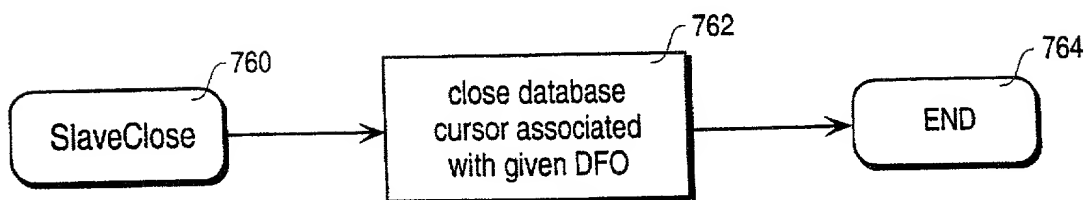


FIG. 7C

**FIG. 7D****FIG. 7E**

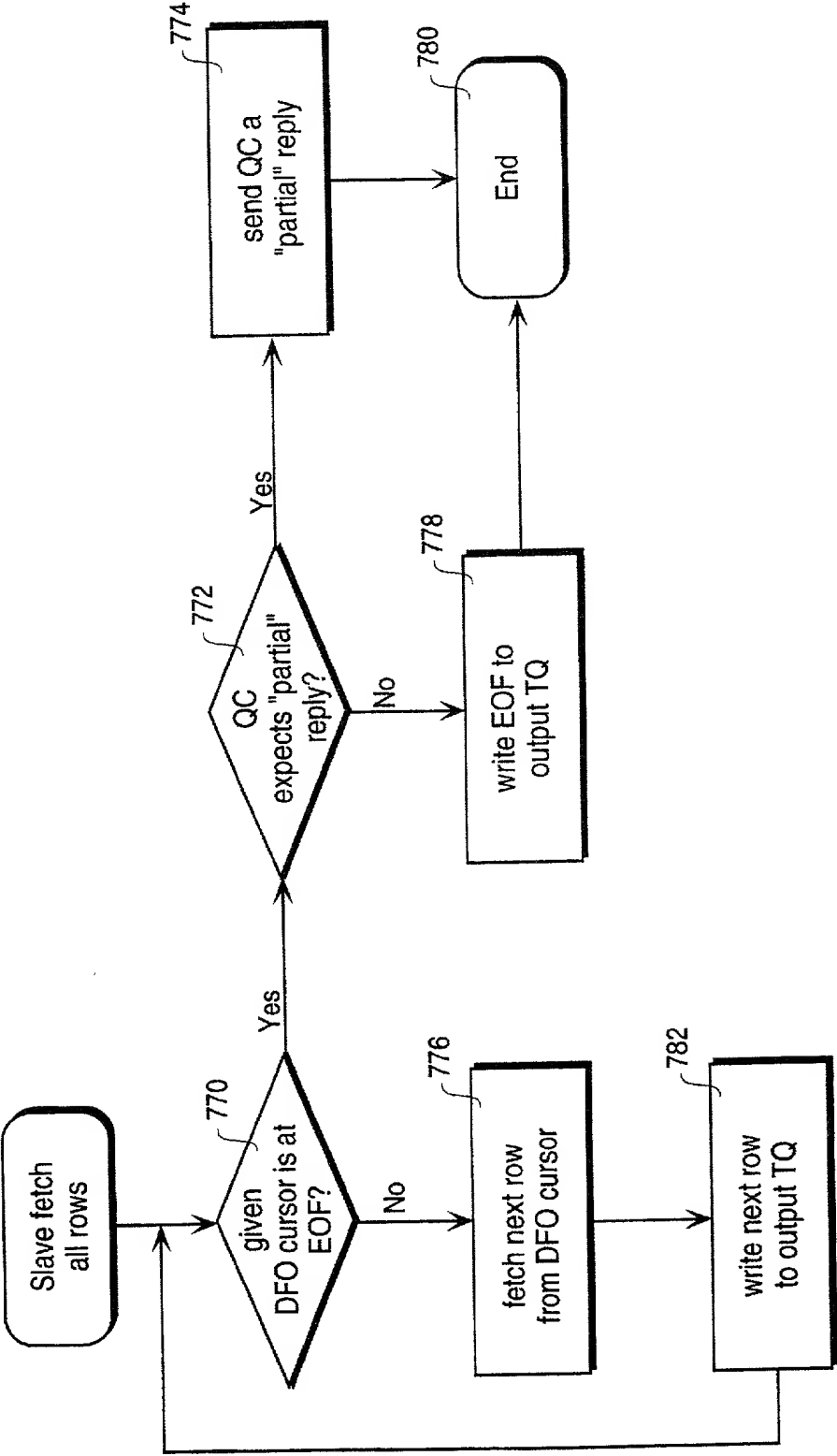


FIG. 7F

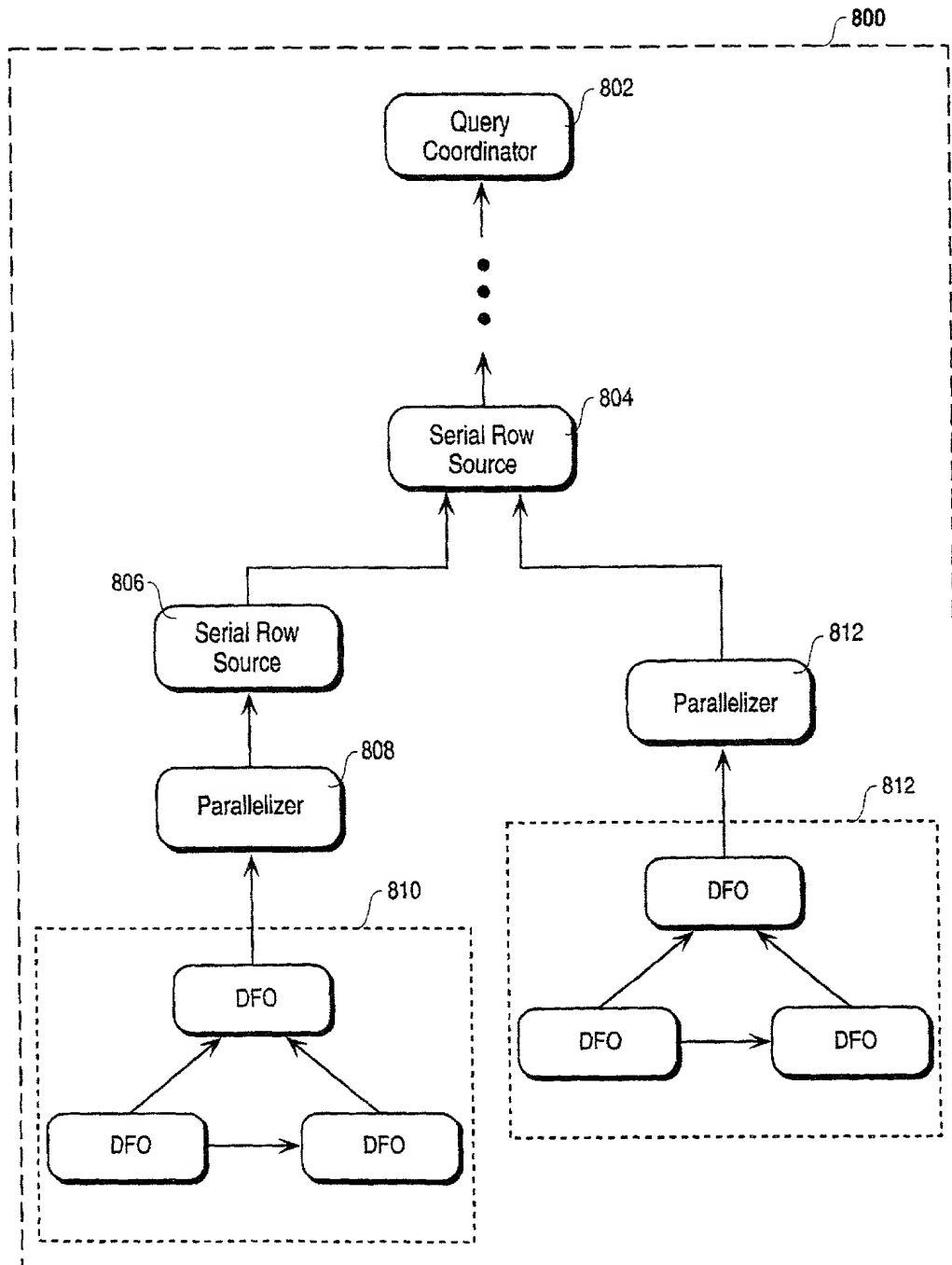


FIG. 8

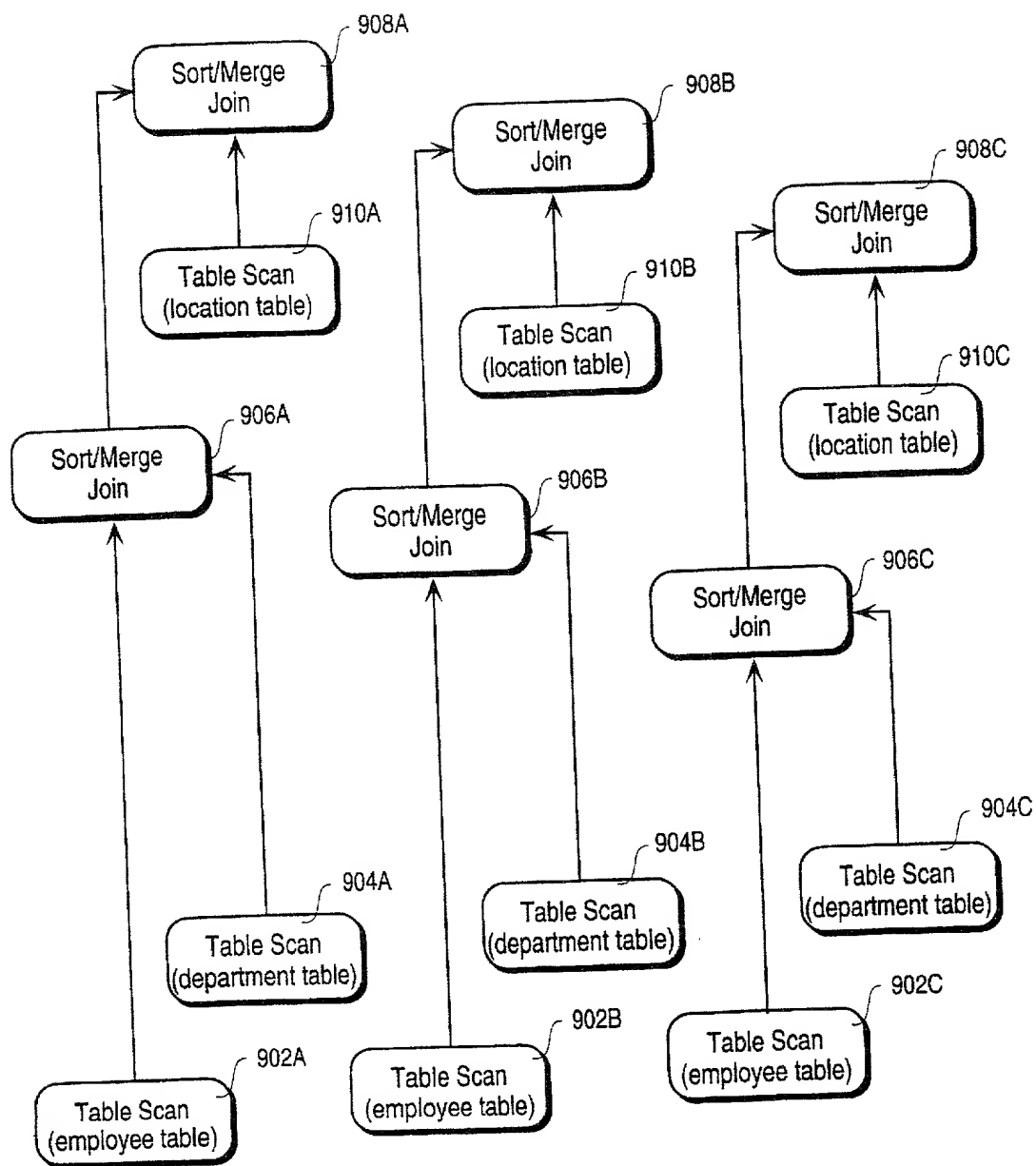


FIG. 9

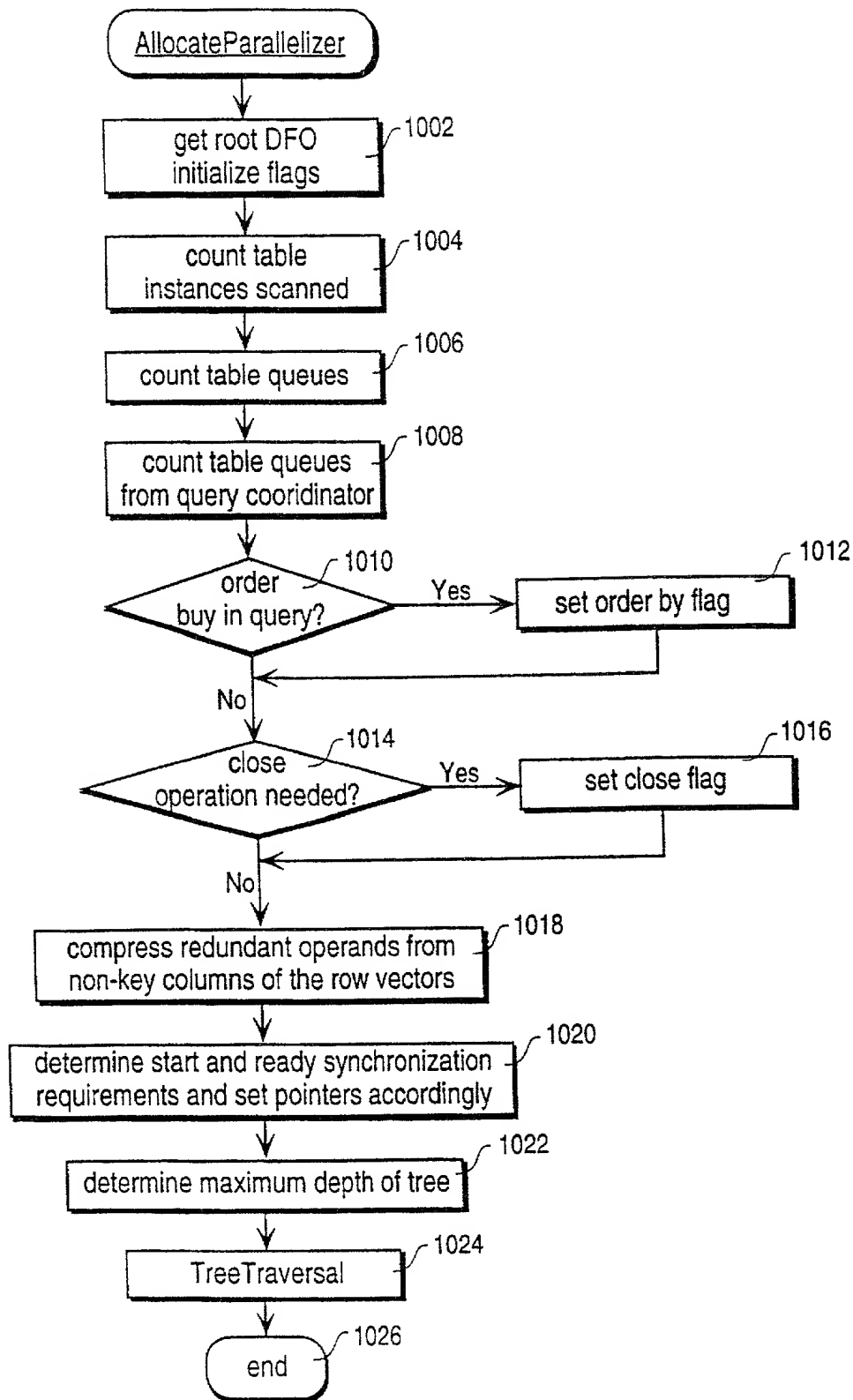


FIG. 10A

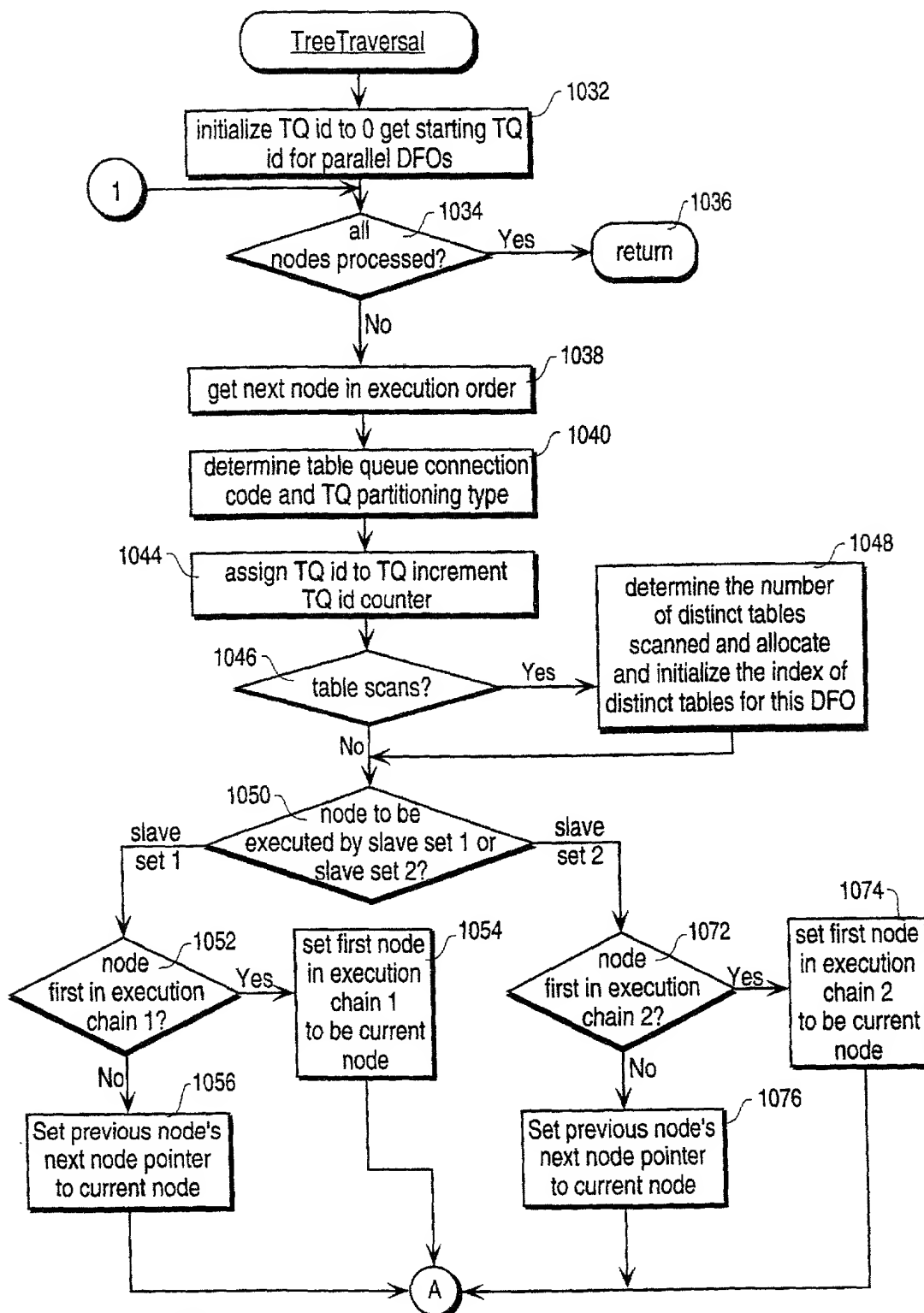
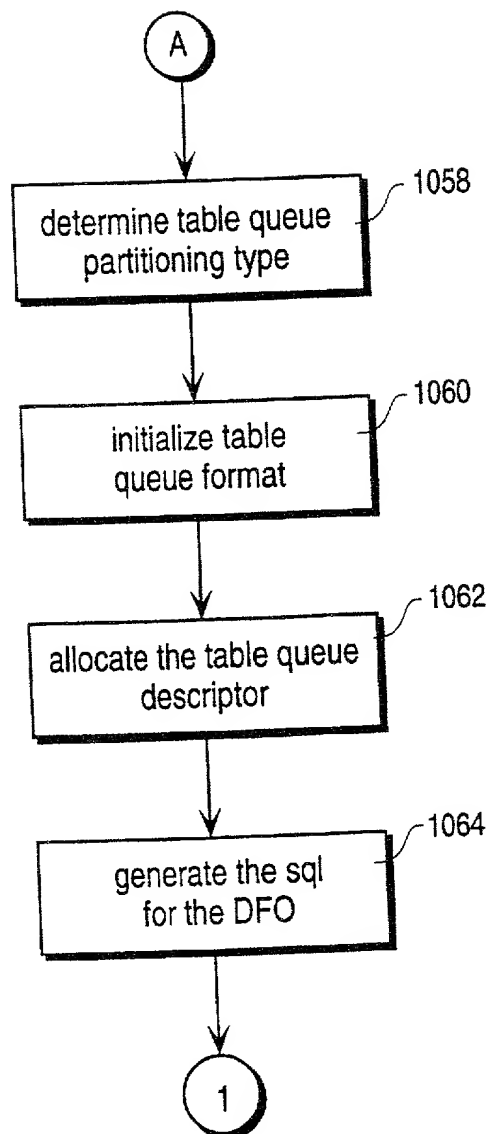


FIG. 10B

**FIG. 10C**

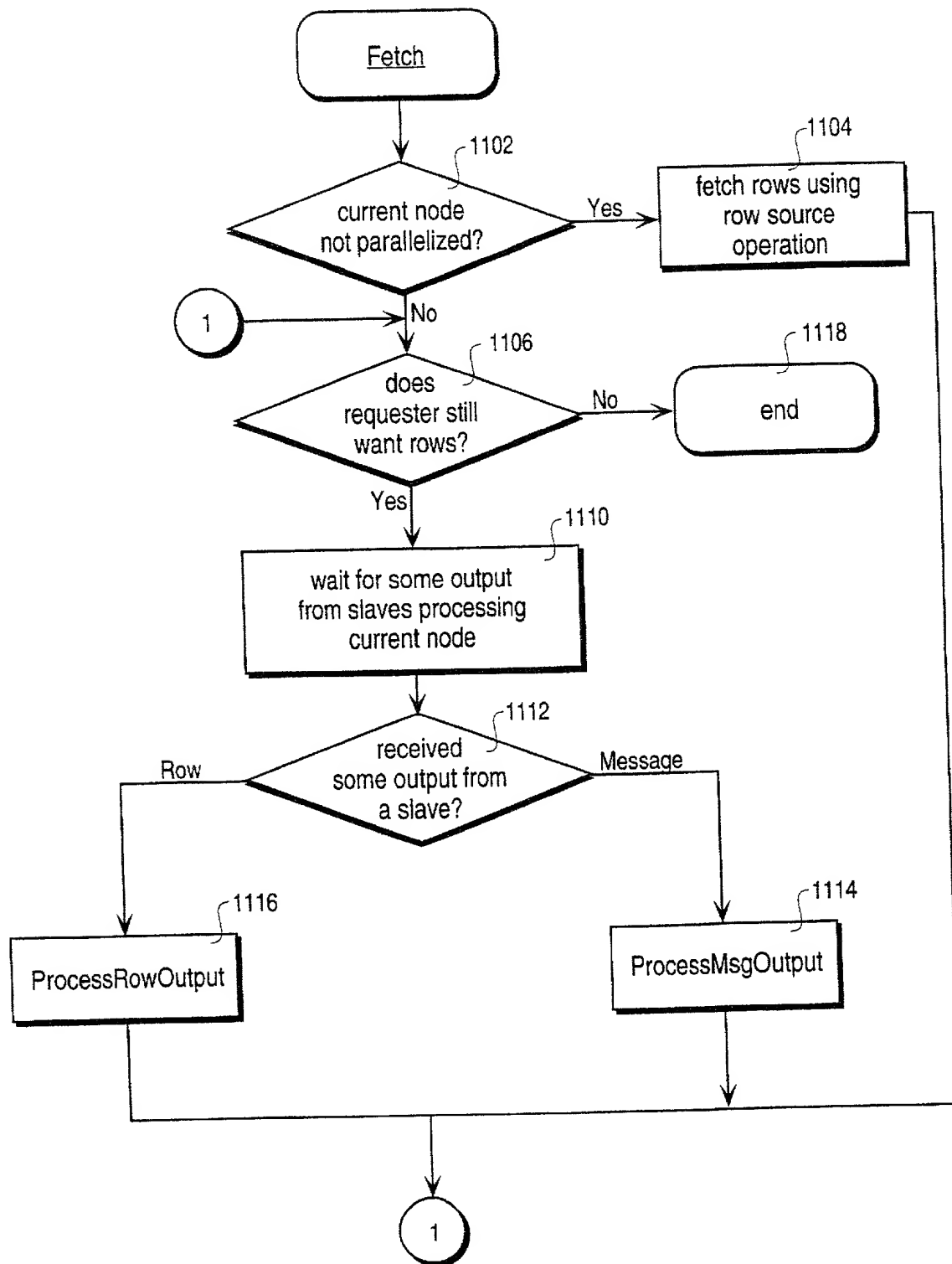
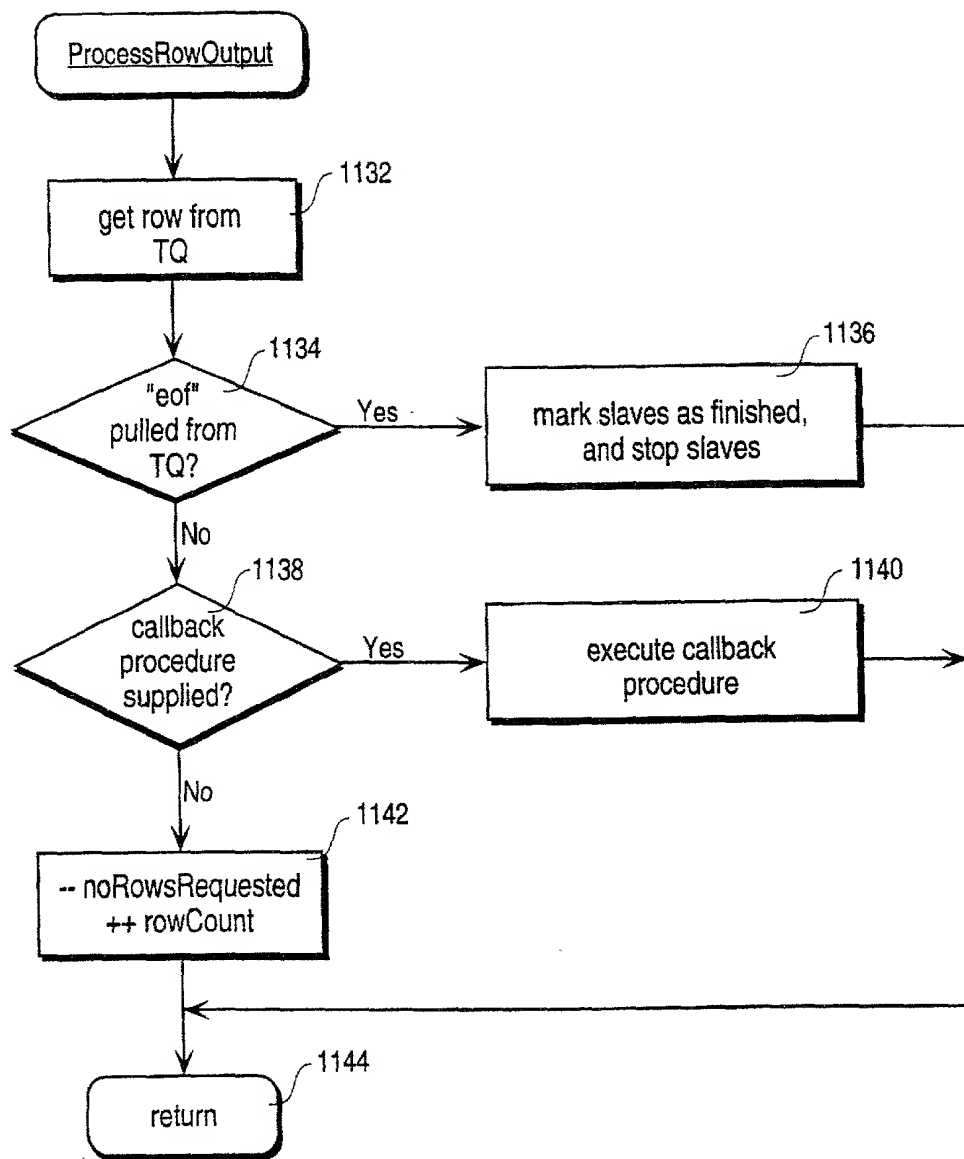


FIG. 11A

**FIG. 11B**

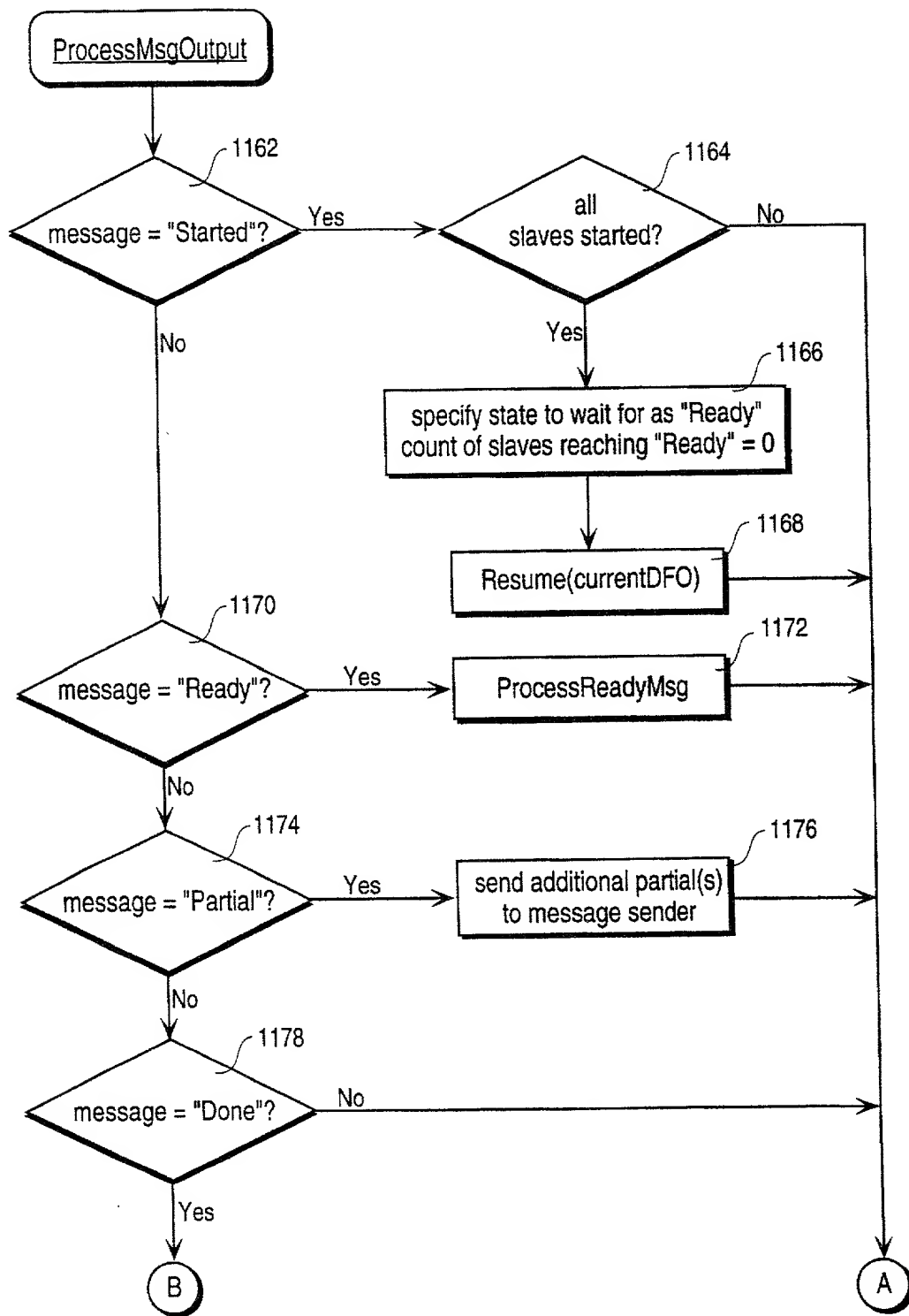


FIG. 11C

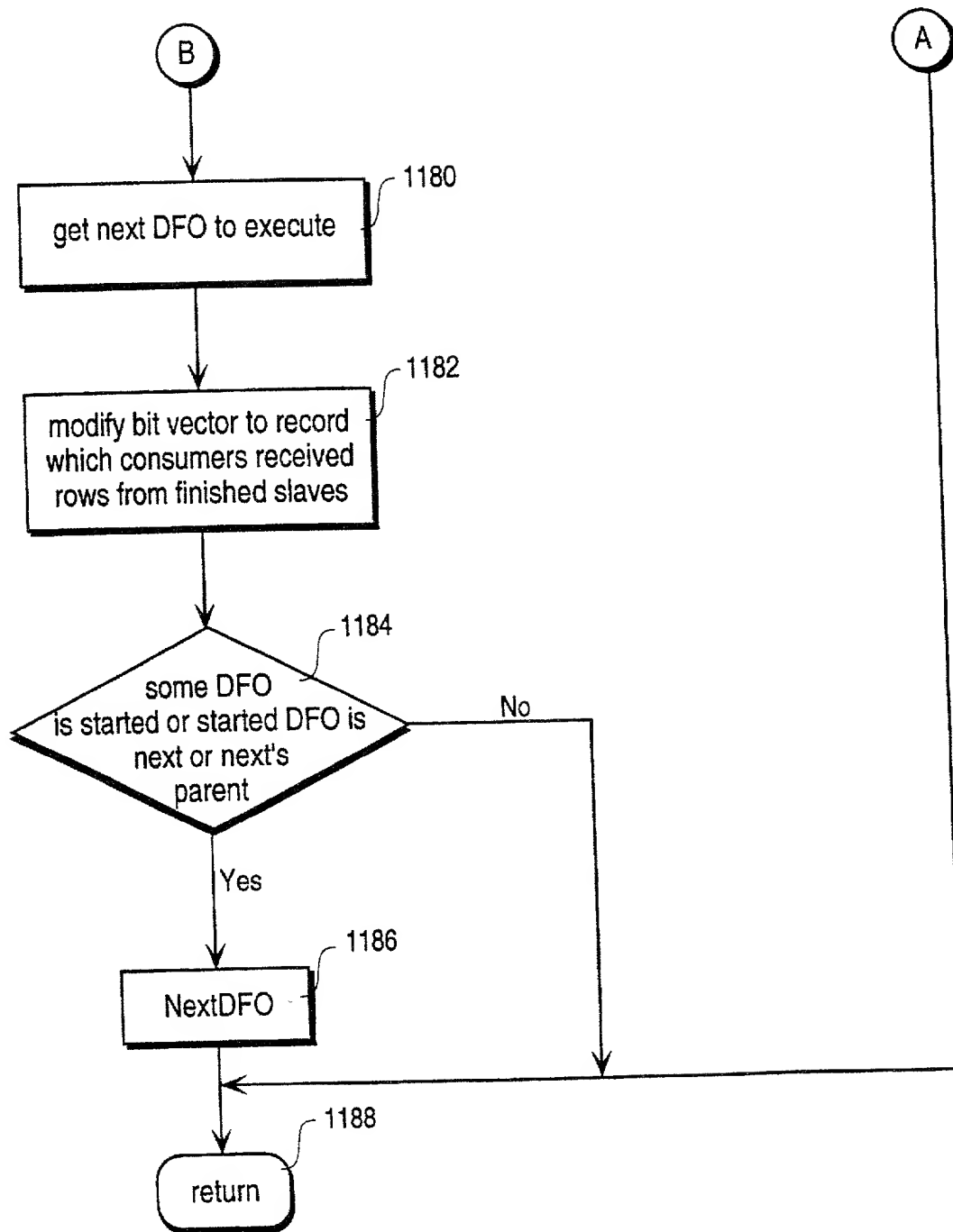


FIG. 11D

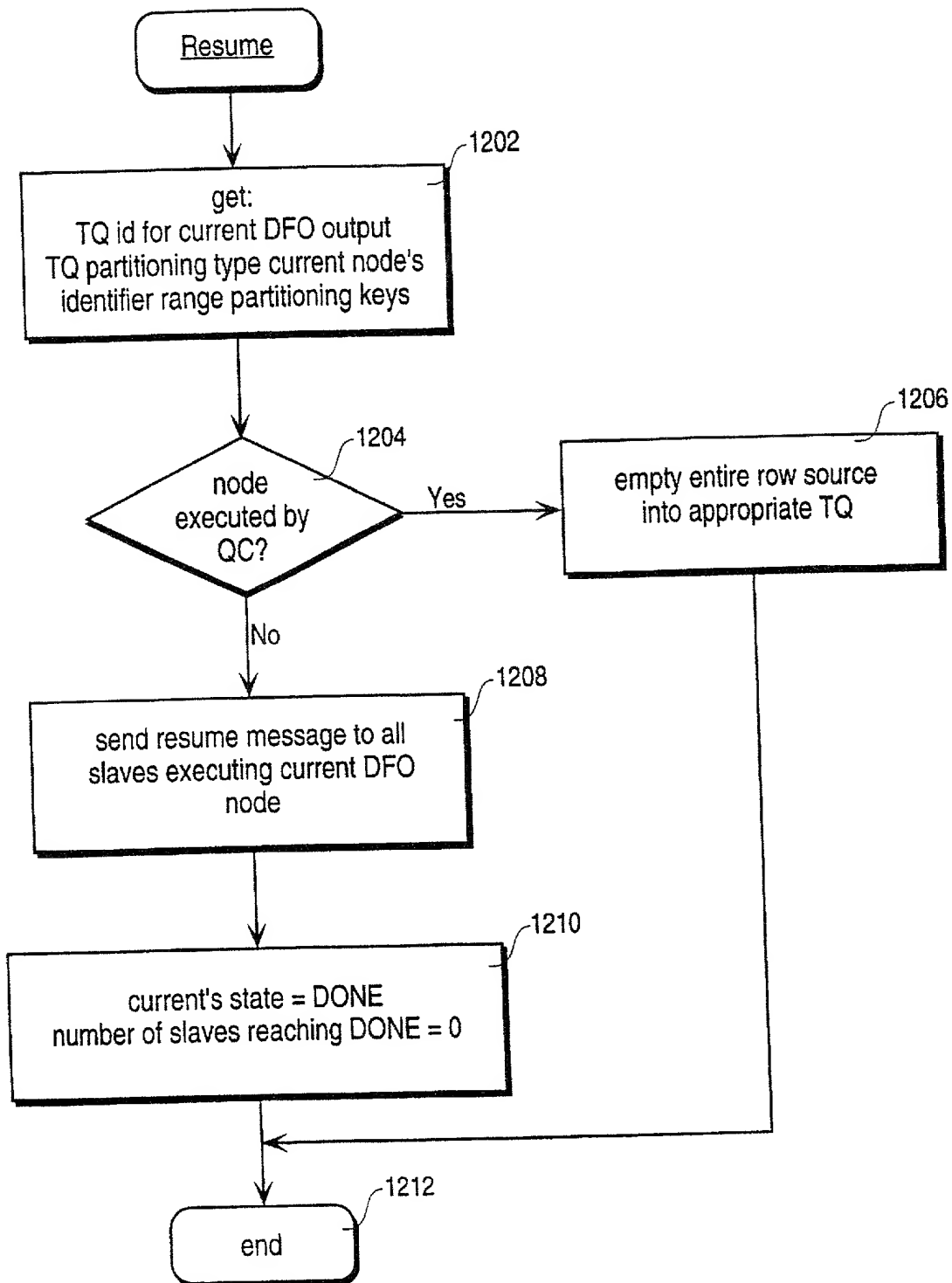


FIG. 12

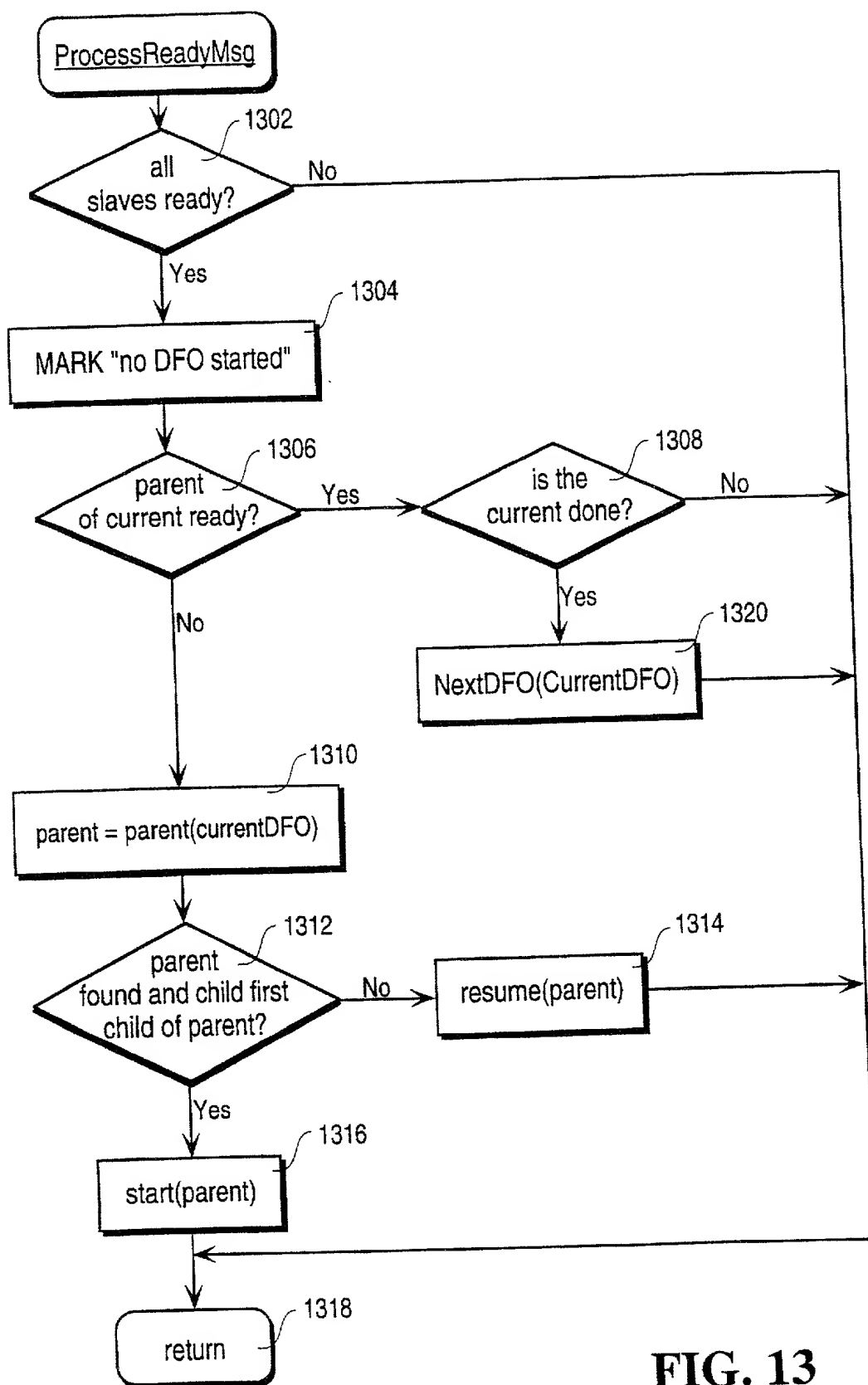


FIG. 13

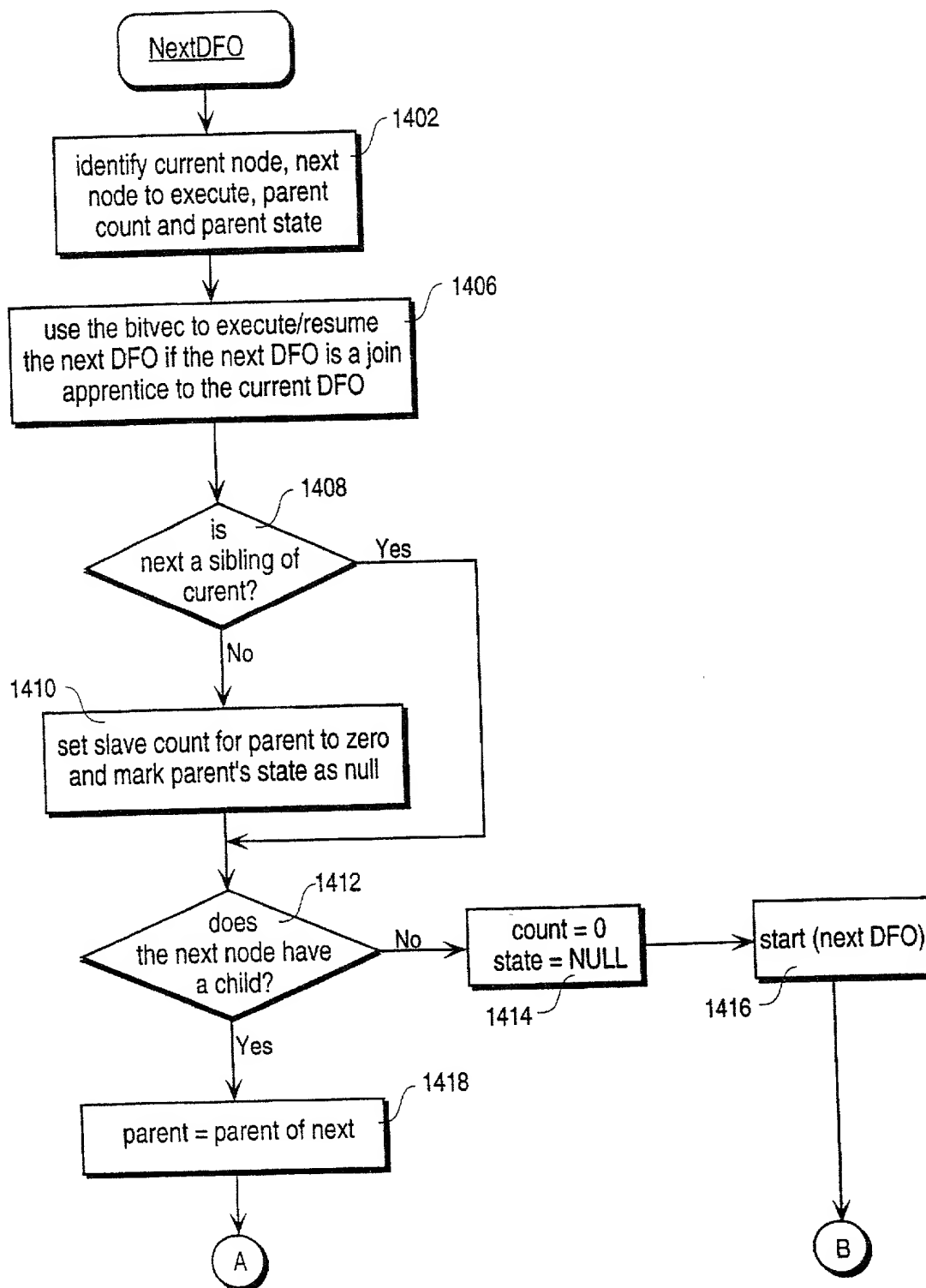


FIG. 14A

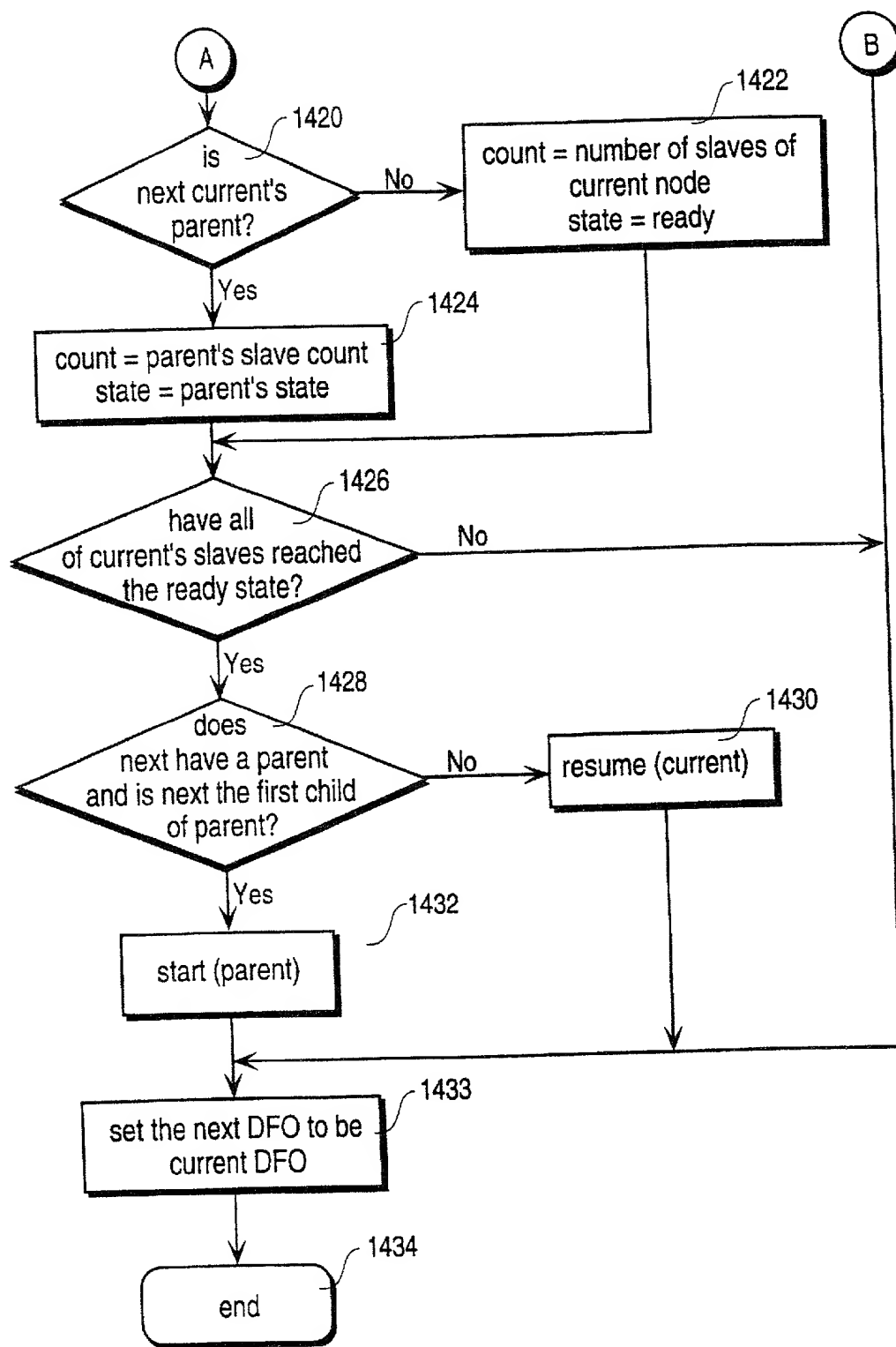


FIG. 14B

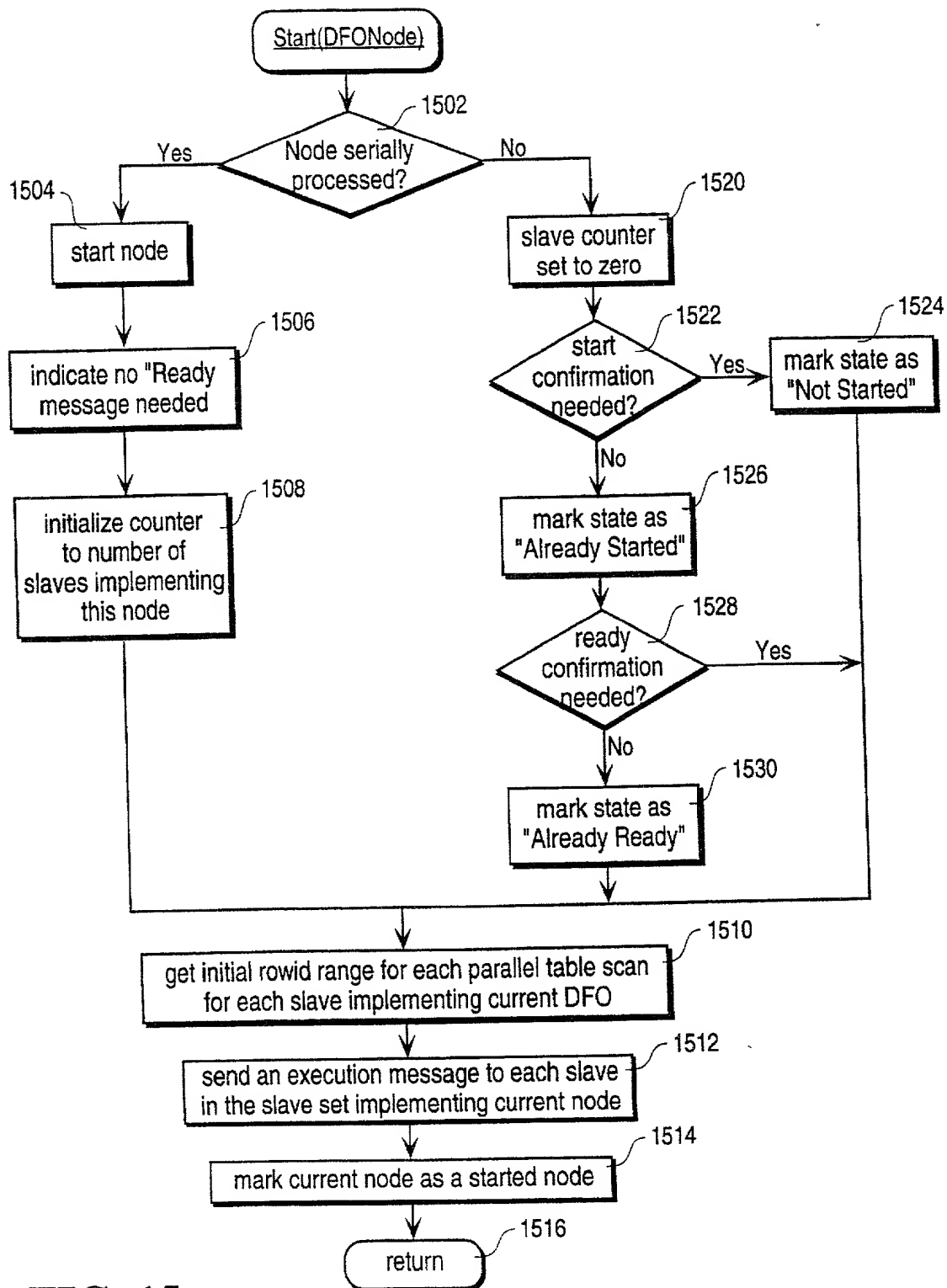


FIG. 15

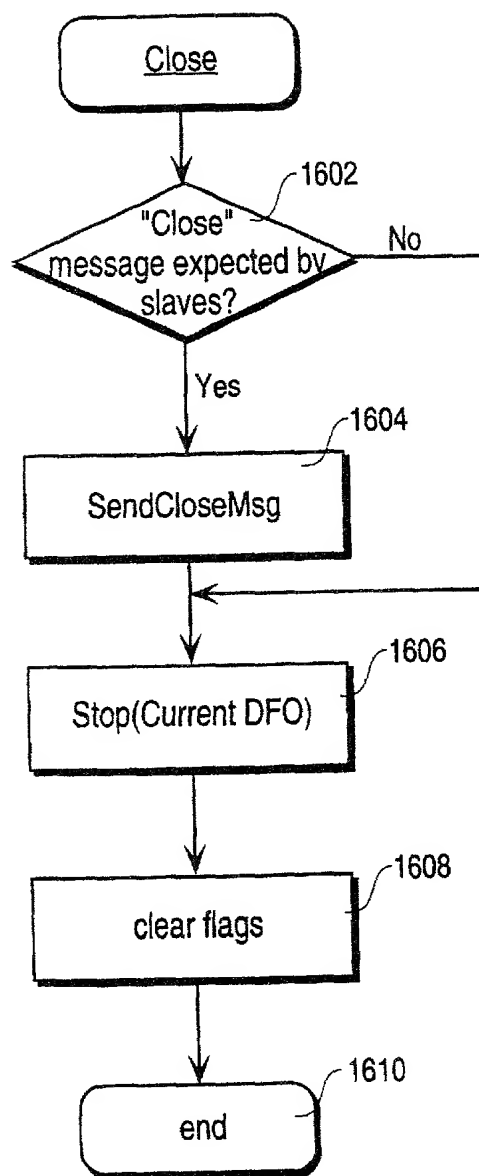
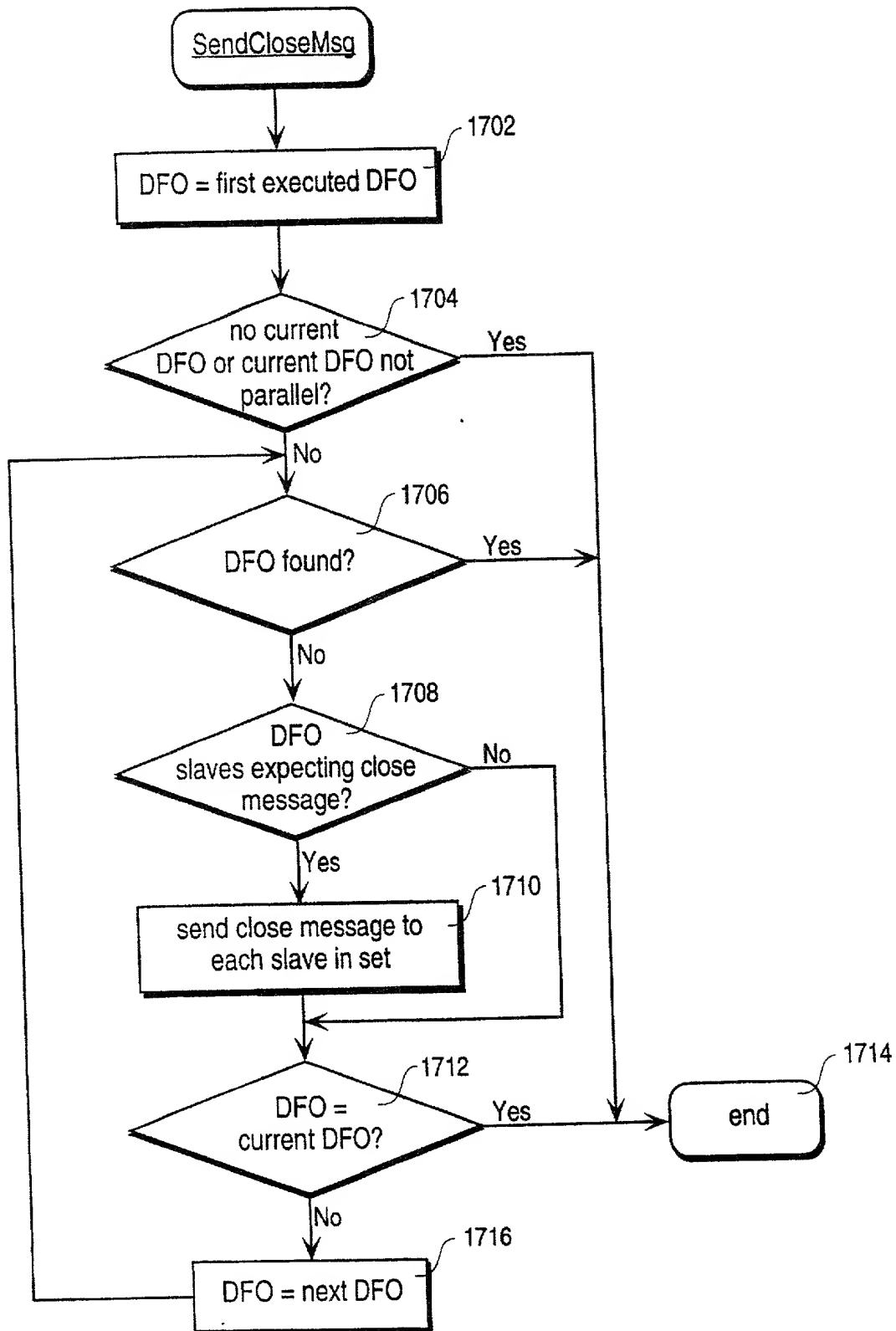


FIG. 16

**FIG. 17**

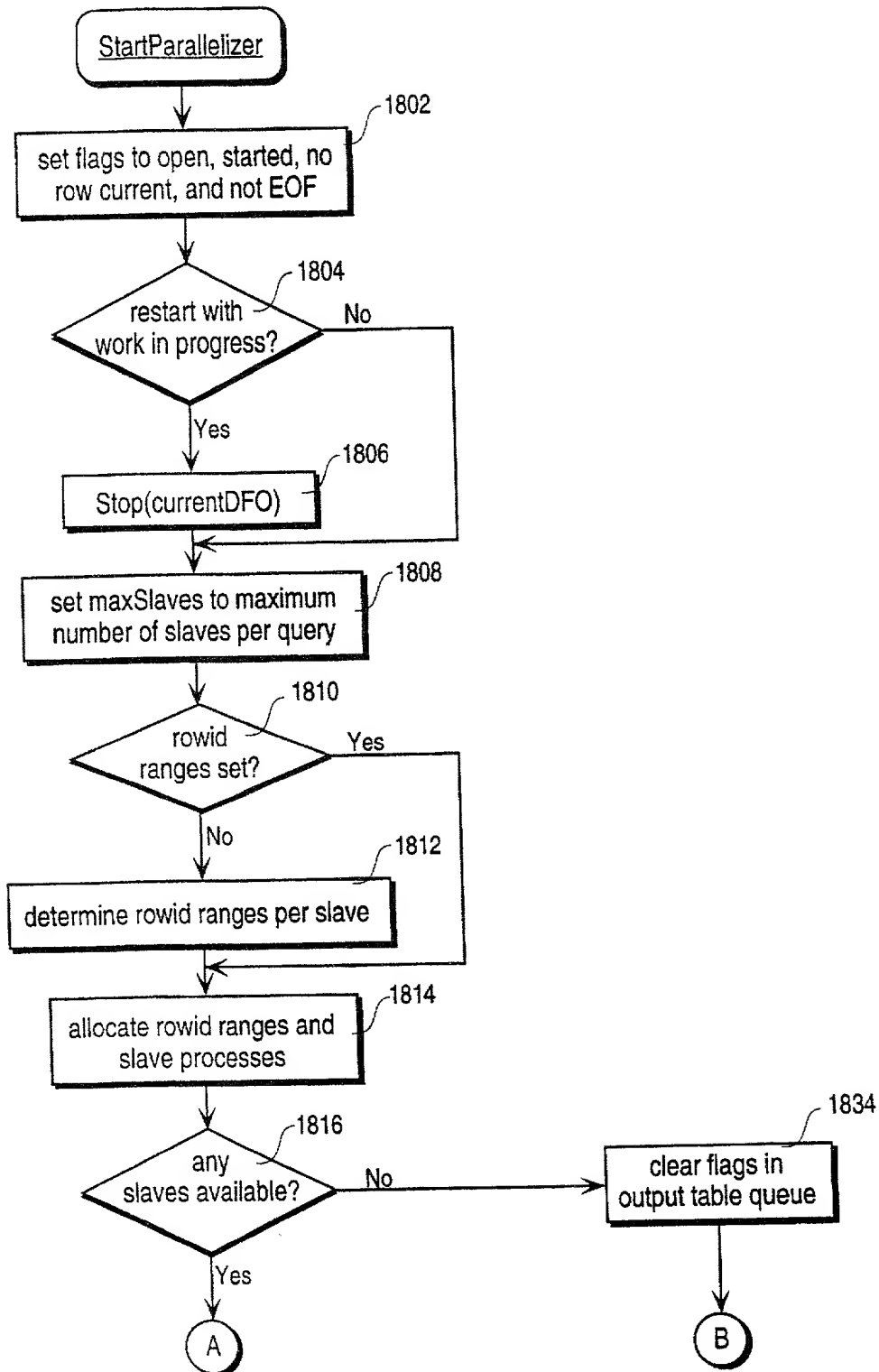
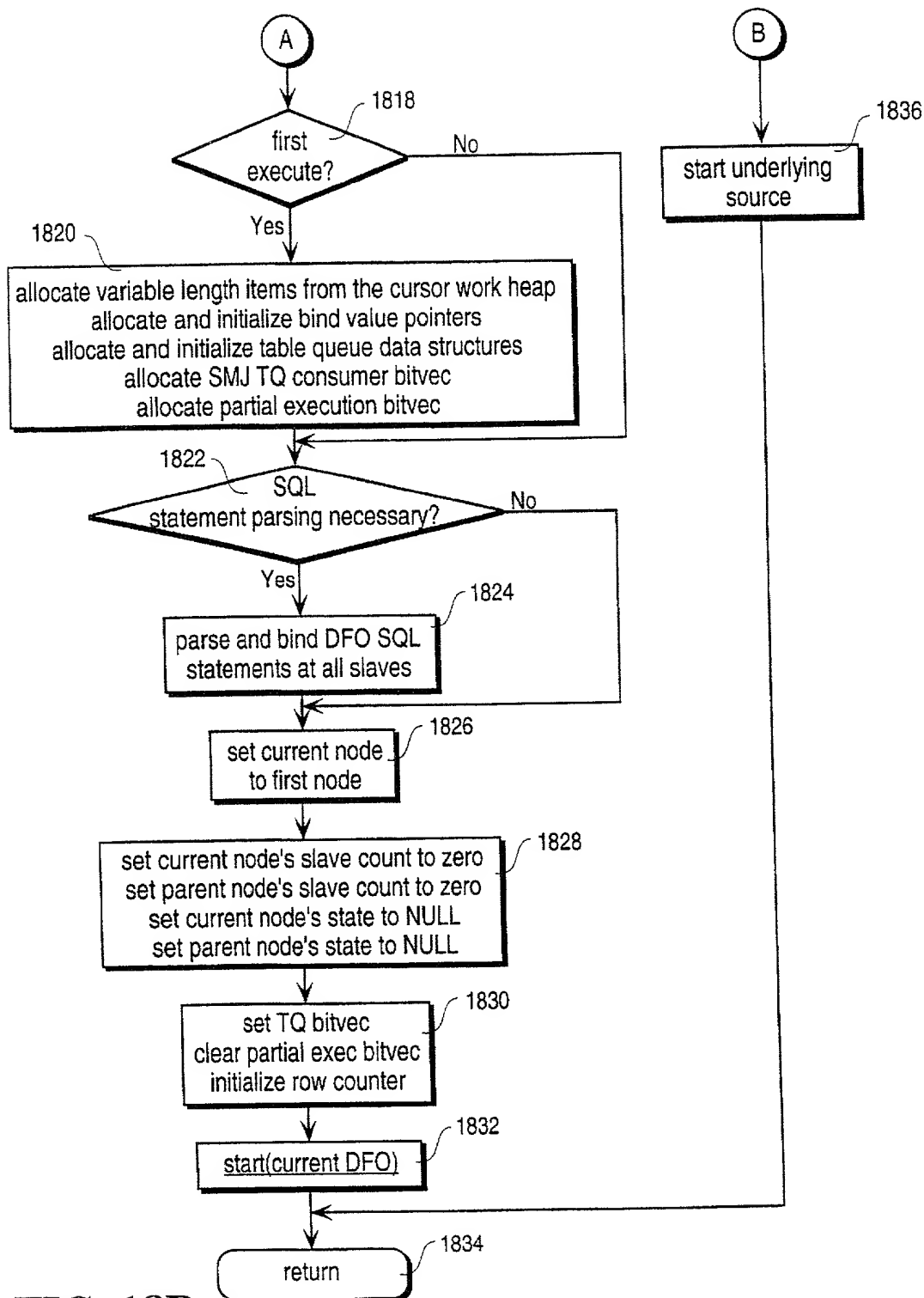


FIG. 18A



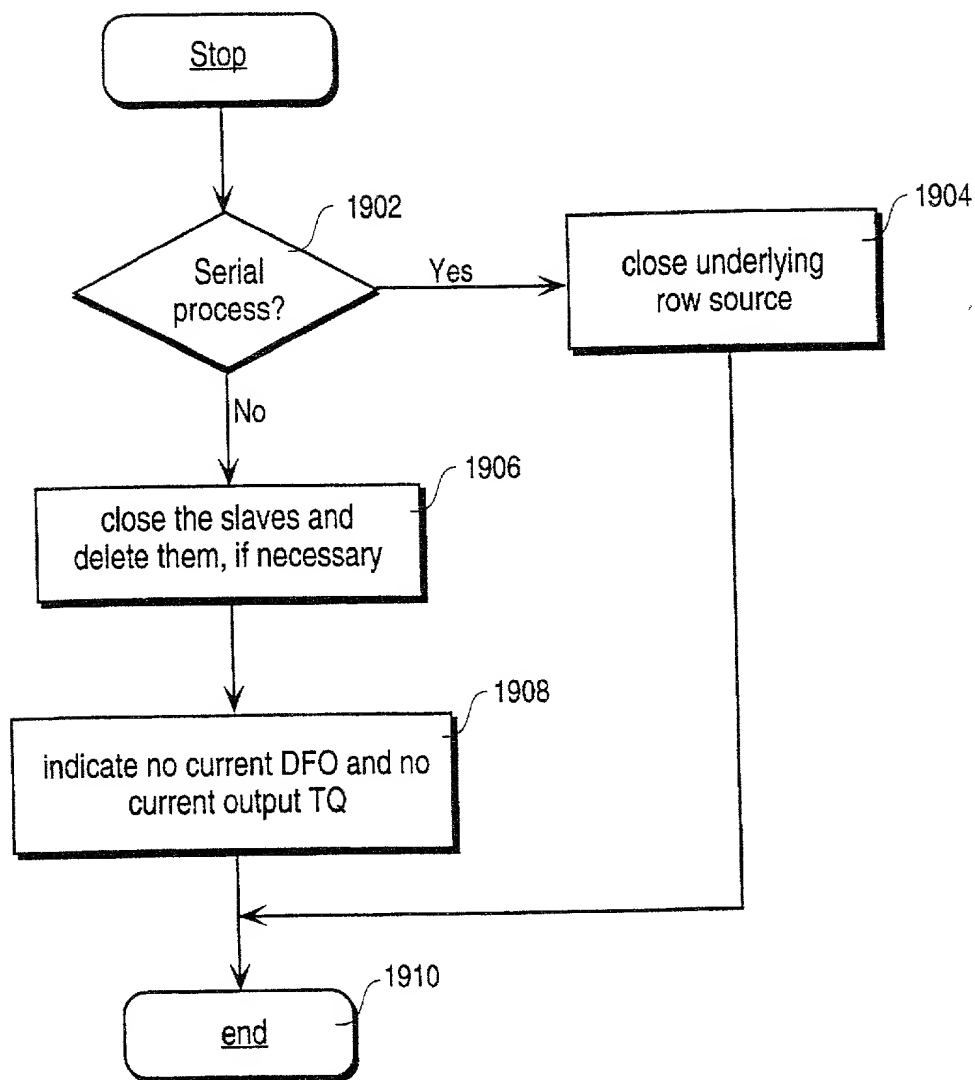


FIG. 19